US8682841 | US PATENTS | 25-MAR-2014

Discover Map

STIC

32. System and method for collecting and processing data

A system and method for collecting and processing data over a communications network. A data mining marshaller module associates each plugin to a particular data source and manages the plugin to periodically retrieve unstructured data from the data source based on a plurality of data items to be...

CURRENT ASSIGNEES: WILLOW ACQUISITION CORP

US20130339973 | US APPLICATIONS | 27-DEC-2013

33. Context-based services

Concepts and technologies are described herein for providing context-based services. In one embodiment, context-based output is provided. The context-based output can include context-based search results for a query. Contextual information can be used to improve access to real-time, social, and...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC

US20110264656 | US APPLICATIONS | 27-OCT-2011

34. Visualization of streaming real-time data

A system facilitates dynamic data visualizations. The system includes an analysis component that periodically processes one or more incoming data streams to determine a visualization form from a plurality of visualization forms. A visualization component dynamically generates the visualization form...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC

US20090287814 | US APPLICATIONS | 19-NOV-2009

35. System and method for collecting and processing data

A system and method for collecting and processing data over a communications network. A data mining marshaller module associates each plugin to a particular data source and manages the plugin to periodically retrieve unstructured data from the data source based on a plurality of data items to be...

CURRENT ASSIGNEES: WILLOW ACQUISITION CORP

US9582611 | US PATENTS | 28-FEB-2017

36. System and method for collecting and processing data

A system and method for collecting and processing data over a communications network. A data mining marshaller module associates each plugin to a particular data source and manages the plugin to periodically retrieve unstructured data from the data source based on a plurality of data items to be...

CURRENT ASSIGNEES: WILLOW ACQUISITION CORP

US20140207732 | US APPLICATIONS | 24-JUL-2014

37. Systems and methods for facilitating open source intelligence gathering

Systems and methods (e.g., utilities) for use in providing automated, lightweight collection of online, open source data which may be content-based to reduce website source bias. In one aspect, a utility is disclosed for use in extracting content of interest from at least one website or other online...

CURRENT ASSIGNEES: LOCKHEED MARTIN CORP

US9348934 | US PATENTS | 24-MAY-2016

38. Systems and methods for performing background queries from content and activity

Most information retrieval systems start with a user's explicit query. Systems and methods are provided that perform implicit or background queries to one or more information sources based on the ongoing activities of users. The methods provide users with the results of such automated contextualized...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC

US20040267730 | US APPLICATIONS | 30-DEC-2004

39. Systems and methods for performing background queries from content and activity

Most information retrieval systems start with a user's explicit query. Systems and methods are provided that perform implicit or background queries to one or more information sources based on the ongoing activities of users. The methods provide users with the results of such automated contextualized...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC

US7225189 | US PATENTS | 29-MAY-2007

40. System and method for dynamic context-sensitive federated search of multiple information repositories

A system and method for context-sensitive federated search across multiple heterogeneous data sources in real-time are disclosed. A user interface receives search query context information from a user. A decision engine interprets the search query context through an internal query classification...

CURRENT ASSIGNEES: VERITY INC

US20050149496 | US APPLICATIONS | 07-JUL-2005

41. Method and system for business intelligence analytics on unstructured data

Various embodiments of the present invention disclose a method for Business Intelligence (BI) metrics on unstructured data. Unstructured data is collected from numerous data sources that include unstructured data as ingested data. The ingested data is indexed and represents hyperlink and extracted...

CURRENT ASSIGNEES: AUMNI DATA INC

US8266148 | US PATENTS | 11-SEP-2012

42. System and Methods Thereof for Mining Web Based User Generated Content for Creation of Term Taxonomies

A system for creation of term taxonomies by mining web based user generated content according. The system includes a network interface enabling access to one or more data sources; a mining unit for collecting textual content from the one or more sources and generating phrases, the generated phrases...

STIC

CURRENT ASSIGNEE: TAYKEY LTD
US20130238631 | US APPLICATIONS | 12-SEP-2013

Main Concept Text
1 modifier
Filters
(1 applied)

Relevance Date Popularity Count Relevance Cut-off: None

43. Data mining to determine online user responses to broadcast messages

In a networked system, a method and apparatus for measuring advertising effectiveness involves broadcasting an advertisement at a broadcast time, monitoring at least one social network or other online forum following the broadcast time, filtering social network traffic to identify messages, search...

CURRENT ASSIGNEE: DISNEY ENTPR INC
US20120123856 | US APPLICATIONS | 17-MAY-2012

44. Method and apparatus for information mining and filtering

A method and system for computer-assisted analysis of information from a data source employs operators including search terms and filters. A visual representation of a network of operators is generated, the operators being user selectable and linked to form the network, which is configured to...

CURRENT ASSIGNEE: JUSTSYSTEM EVANS RSCH INC (+ 1)
US7496856 | US PATENTS | 03-DEC-2008

45. Autonomous real time publishing

Techniques for autonomous and automatic real-time publishing of content are described. In an example embodiment, one or more topic terms are obtained. A set of information that is related to the one or more topic terms is automatically acquired. Linguistic analysis on the set of information is...

CURRENT ASSIGNEE: LINGUASTAT INC
US20150356127 | US APPLICATIONS | 10-DEC-2015

46. Autonomous real time publishing

Techniques for autonomous and automatic real-time publishing of content are described. In an example embodiment, one or more topic terms are obtained. A set of information that is related to the one or more topic terms is automatically acquired. Linguistic analysis on the set of information is...

CURRENT ASSIGNEE: LINGUASTAT INC
US9116977 | US PATENTS | 18-AUG-2015

47. Method and apparatus for pushing situationally relevant data

A computer-implemented method of providing users with contextually relevant data associates metadata tags with data items extracted from a variety of data sources that summarize the data items in searchable form using a common format. Contextual data is collected from the users indicative of their...

CURRENT ASSIGNEE: FITEROP CORP
US9152739 | US PATENTS | 06-OCT-2015

48. System and methods thereof for mining web based user generated content for creation of term taxonomies

A system for creation of term taxonomies by mining web based user generated content according. The system includes a network interface enabling access to one or more data sources; a mining unit for collecting textual content from the one or more sources and generating phrases, the generated phrases...

CURRENT ASSIGNEE: TAYKEY LTD
US8930377 | US PATENTS | 06-JAN-2015

49. Entity following

The present invention outlines a genuine entity following system that also addresses data source limitation. When reviewing entity-related objects in web content, a web user designates one or more entities to follow in real time. More particularly, the present invention is directed through strategic...

CURRENT ASSIGNEE: MICROSOFT TECH LICENSING LLC
US8782033 | US PATENTS | 15-JUL-2014

50. Entity Following

The present invention outlines a genuine entity following system that also addresses data source limitation. When reviewing entity-related objects in web content, a web user designates one or more entities to follow in real time. More particularly, the present invention is directed through strategic...

CURRENT ASSIGNEE: MICROSOFT TECH LICENSING LLC
US20120143845 | US APPLICATIONS | 07-JUN-2012

Show next: 50 | 100 | 250 | 500 | 1000 Results

Discover Map STIC

Non-Patent Literature | Main Concept Text real time monitoring set query s... 1 modifier | Filter | Discover

Actions: Query Results Sort: Relevance Cut-off: None 0 Selected Documents

1 - 50 1,422,459 results

1. **Infusing social data analytics into Future Internet applications for manufacturing**

   Today, a new age of engagement and collaboration has emerged with the proliferation of usergenerated content in social networks and generally the Web 2.0, rendering it particularly difficult for enterprises to monitor and act upon all content following conventional data mining methodologies. In this...

   IEEE Xplore | IEEE CONFERENCES | 01-NOV-2014 | 2014 IEEE/ACS 11th International Conference on Computer Systems and Applications (AICCSA) (Page(s): 515-522)

2. **Social Analytics in an Enterprise Context: From Manufacturing to Software Development**

   Although customers become more and more vocal in expressing their experiences, demands and needs in various social networks, companies of any size typically fail to effectively gain insights from such social data and to eventually catch the market realm. This paper introduces the Anizer analytics...

   IEEE Xplore | IEEE CONFERENCES | 01-AUG-2016 | 2016 11th International Conference on Availability, Reliability and Security (ARES) (Page(s): 827-833)

3. **Analyzing the public discourse on works of fiction – Detection and visualization of emotion in online coverage about HBO's Game of Thrones**

   This paper presents a Web intelligence portal that captures and aggregates news and social media coverage about "Game of Thrones", an American drama television series created for the HBO television network based on George R.R. Martin's series of fantasy novels. The system collects content from the...

   PMC6804387 | PUBMED CENTRAL | 01-JAN-2016 | Information Processing & Management, 52(1), 129-138

4. **Web-based geospatial information extraction**

   The quantity of information publicly available on the World Wide Web today is enormous and continuously growing. Individual tools available for information retrieval and data mining are capable of extracting data based on search criteria but place a cognitive burden on the user to sift through the...

   IEEE Xplore | IEEE CONFERENCES | 01-JUL-2012 | 2012 IEEE National Aerospace and Electronics Conference (NAECON) (Page(s): 46-50)

5. **Real-time Performance Monitoring for an Enterprise Information Management System**

   Enterprise information management systems deal with management of business information within organizations in order to support decision-making processes or day-to-day operations that require the availability of knowledge. The business information from such systems is typically analyzed using...

   IEEE Xplore | IEEE CONFERENCES | 01-OCT-2008 | 2008 IEEE International Conference on e-Business Engineering (Page(s): 429-434)

6. **The Research of Active Data Warehouse Based on Multi-Agent**

   The traditional data warehouse (DW) can only analyze historical data and data extraction cycle is so long that it greatly reduces the enterprise's adaptability to change this situation. The 4-tier data warehouse architecture, which is based on multi-agent systems, not only improves the active and...

   IEEE Xplore | IEEE CONFERENCES | 01-MAY-2012 | 2012 Spring Congress on Engineering and Technology (Page(s): 1-4)

7. **Model of computer architecture for online social networks flexible data analysis: The case of Twitter data**

   Since several years, there is an increasing interest for new services based on the analysis of data coming from online social networks. Such services can, for example, provide the e-reputation of a product or a company, detect new trends in a commercial, social or political context, etc. The huge...

   IEEE Xplore | IEEE CONFERENCES | 01-AUG-2016 | 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM) (Page(s): 677-684)

8. **WISDOM from Light-Weight Information Retrieval**

   This paper presents a light-weight information retrieval and analysis architecture that addresses the complex task of gathering, combining, and storing documents to enable indepth analysis. The growing interest in mining the Internet for conversation topics, opinions, and influencers has resulted in...

   IEEE Xplore | IEEE CONFERENCES | 01-AUG-2010 | 2010 IEEE Second International Conference on Social Computing (Page(s): 347-354)

9. **An integrated system for social information discovery**

Everyday millions of contents are generated and shared over the most popular social network. Enterprises have already realized the usefulness of social networks to enable marketing campaigns and communicate with their customers. However, only few enterprises use social network as an active source of...

IEEE Xplore | IEEE CONFERENCES | 01-MAY-2014 | 2014 International Conference on Collaboration Technologies and Systems (CTS) (Page(s): 353-360)

10. Enterprise information fusion for real-time business intelligence

We define, describe and motivate an emerging business intelligence need, which we call Enterprise Information Fusion: As a consequence of the growth and popularity of social media such as Twitter, news events of even minor or highly local import are often reported here by reporters as well as the...

IEEE Xplore | IEEE CONFERENCES | 01-JUL-2011 | 14th International Conference on Information Fusion (Page(s): 1-8)

11. Analytics-driven data ingestion and derivation in the AWESOME polystore

Polystores, i.e., data management systems that use multiple stores for different data models, are gaining popularity. We are developing a polystore-based system called AWESOME to support social data analytics. The AWESOME polystore can support relational, semistructured, graph and text data and...

IEEE Xplore | IEEE CONFERENCES | 01-DEC-2016 | 2016 IEEE International Conference on Big Data (Big Data) (Page(s): 2555-2564)

12. Big Search in Cyberspace

With the rapid development of big data analytics, mobile computing, Internet of Things, cloud computing and social networking, cyberspace has expanded to a cross-fused and ubiquitous space made up of human beings, things, and information. Internet applications have evolved from Web 1.0 to Web 2.0. .

IEEE Xplore | IEEE EARLY ACCESS | 28-APR-2017 | IEEE Transactions on Knowledge and Data Engineering

13. Research on the SCADA /EMS System Data Warehouse Technology

Data warehouse (DW) technology is an effective method to use the large amount data with complex correlation. This paper describes the structure of the DW of SCADA/EMS. The system is made up of enterprise application integration (EAI) node, real-time data process center (RTDPC), an active DW and...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2005 | 2005 IEEE/PES Transmission & Distribution Conference & Exposition: Asia and Pacific (Page(s): 1-6)

14. Mining and Visualizing Social Data to Inform Marketing Decisions

Most of today's commercial companies heavily rely on social media and community management tools to interact with their clients and analyze their online behaviour. Nonetheless, these tools still lack evolved data mining and visualization features to tailor the analysis in order to support useful...

IEEE Xplore | IEEE CONFERENCES | 01-MAR-2016 | 2016 IEEE 30th International Conference on Advanced Information Networking and Applications (AINA) (Page(s): 66-73)

15. A current trends in big data landscape

The "Big Data" is a very huge or voluminous amount of data and difficult to process using conventional data processing applications and tools. A retailer handles a millions of customer transactions per hour and transfers those into DBs and it contains more than 2.5 petabytes of data. When compare to...

IEEE Xplore | IEEE CONFERENCES | 01-DEC-2015 | 2015 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC) (Page(s): 1-6)

16. Zero-latency data warehousing (ZLDWH): the state-of-the-art and experimental implementation approaches

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2006 | 2006 International Conference onResearch, Innovation and Vision for the Future (Page(s): 167-176)

17. CollecTV intelligence: A 3-screen ‘social search’ system for TV and video queries

Television and video consumption are growing rapidly worldwide, driving usage of second and third screens for related interactions and information. Since television has a proven impact on consumer purchase behaviors, there is commercial interest in technologies that model viewers' intent, interests...

IEEE Xplore | IEEE CONFERENCES | 01-OCT-2010 | 6th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2010) (Page(s): 1-6)

18. Personalized search engines on mining user preferences using clickthrough data

In an web based application, different users may have different search goals when they submit it to a search engine. For a broad-topic and ambiguous query it is difficult. Here we Propose a novel approach to infer user search goals by analyzing search engine query logs. A major deficiency of generic...

IEEE Xplore | IEEE CONFERENCES | 01-FEB-2014 | International Conference on Information Communication and Embedded Systems (ICICES2014) (Page(s): 1-6)

19.

Notice of Violation of IEEE Publication Principles
A Speedy Data Uploading Approach for Twitter Trend and Sentiment Analysis Using HADOOP Map

Notice of Violation of IEEE Publication Principles

"A Speedy Data Uploading Approach for Twitter Trend and Sentiment Analysis Using HADOOP"
by Gaurav Digambarrao Rajurkar and Rajeshwari M Goudar
in the Proceedings of the International Conference on Computing Communication Control and...

IEEE Xplore | IEEE CONFERENCES | 01-FEB-2015 | 2015 International Conference on Computing Communication Control and Automation (Page(s): 580-584)

20. Steds: Social Media Based Transportation Event Detection with Text Summarization

Ubiquitous user-input contents on social media and online services have generated a tremendous amount of information. Such information has great potential applications in various areas such as events detection and text summarization. In this paper, a social media based traffic status monitoring ...

IEEE Xplore | IEEE CONFERENCES | 01-SEP-2015 | 2015 IEEE 18th International Conference on Intelligent Transportation Systems (Page(s): 1952-1957)

21. PRISENIT -- A Probabilistic Search Recommendation Algorithm to Improve Search Efficiency for Network Intelligence and Troubleshooting

When searching for data in a telecommunications network management application, large search result sets are common. In order to refine the results to retrieve useful information existing systems normally require additional user intervention such as appending or removing a search keyword, adding a...

IEEE Xplore | IEEE CONFERENCES | 01-MAR-2015 | 2015 17th UKSim-AMSS International Conference on Modelling and Simulation (UKSim) (Page(s): 355-360)

22. Web Data Mining research: A survey

Web Data Mining is an important area of Data Mining which deals with the extraction of interesting knowledge from the World Wide Web. It can be classified into three different types i.e. web content mining, web structure mining and web usages mining. The aim of this paper is to provide past, current...

IEEE Xplore | IEEE CONFERENCES | 01-DEC-2010 | 2010 IEEE International Conference on Computational Intelligence and Computing Research (Page(s): 1-10)

23. SoDesktop: A Desktop Search Engine

The number of files stored in a personal computer is increasing very quickly, so it is difficult for users to find the information they want. One desktop search engine named SoDesktop is proposed in this paper, which is composed of four modules including Data crawler, Task scheduler, Data indexer...

IEEE Xplore | IEEE CONFERENCES | 01-MAY-2012 | 2012 International Conference on Communication Systems and Network Technologies (Page(s): 463-467)

24. The cogency monitor: an external interface architecture for a distributed object-oriented real-time database system

The authors are developing a distributed database, called BeeHive, which could offer features along different types of requirements: real-time, fault-tolerance, security and quality-of-service for audio and video. Support of these features and potential trade-offs between them could provide a...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1998 | Proceedings. Fourth IEEE Real-Time Technology and Applications Symposium (Cat. No.98TB100245) (Page(s): 73-78)

25. An application specific knowledge engine for researches in intelligent transportation systems

We propose to establish a new type of structured search processes for collecting and analyzing information in application specific domains over the Internet, called application specific knowledge engines (ASKE). The basic idea is to use a knowledge configuration file (KCF) to specify topics,...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2004 | Proceedings. The 7th International IEEE Conference on Intelligent Transportation Systems (IEEE Cat. No.04TH8749) (Page(s): 841-846)

26. An ontology based sentiment analysis for mobile products using tweets

Large amount of data is ubiquitous in the internet giving the challenges to identify the relevant information from the documents. Marketing or sales people do analysis on their product's reach using surveys, feedback and queries etc. using online forms. All these unstructured text and voluminous...

IEEE Xplore | IEEE CONFERENCES | 01-DEC-2013 | 2013 Fifth International Conference on Advanced Computing (ICoAC) (Page(s): 342-347)

27. Towards methods for systematic research on big data

Big Data is characterized by the five V's --- of Volume, Velocity, Variety, Veracity and Value. Research on Big Data, that is, the practice of gaining insights from it, challenges the intellectual, process, and computational limits of an enterprise. Leveraging the correct and appropriate toolset...

IEEE Xplore | IEEE CONFERENCES | 01-OCT-2015 | 2015 IEEE International Conference on Big Data (Big Data) (Page(s): 2072-2081)

Monitoring Strategic Business Goals with Argus

28. Business analytics has emerged in the past decade as a top concern for business executives world-wide, surpassing earlier top concerns such as supply chain management and total quality management. Business analysis techniques analyze operational data for a variety of purposes including prediction,...

IEEE Xplore | IEEE CONFERENCES | 01-SEP-2015 | 2015 IEEE 19th International Enterprise Distributed Object Computing Conference (Page(s): 1-8)

29. Suggesting Topic-Based Query Terms as You Type

Query term suggestion that interactively expands the queries is an indispensable technique to help users formulate high-quality queries and has attracted much attention in the community of web search. Existing methods usually suggest terms based on statistics in documents as well as query logs and...

IEEE Xplore | IEEE CONFERENCES | 01-APR-2010 | 2010 12th International Asia-Pacific Web Conference (Page(s): 61-67)

30. Ask, don't search: A social help engine for online social network mobile users

In this paper, we present the architectural details of Odin Help Engine, a novel social search engine that leverages online social networks and sensing data from mobile devices to find targeted answers for subjective queries and recommendation requests. In Odin, users' queries are routed to those...

IEEE Xplore | IEEE CONFERENCES | 01-MAY-2012 | 2012 35th IEEE Sarnoff Symposium (Page(s): 1-5)

31. SeeNSearch: A Context Directed Search Facilitator for Home Entertainment Devices

The Internet has become an extremely popular source of entertainment and information. But, despite the growing amount of media content, most Web sites today are designed for access via web browsers on the PC, making it difficult for home consumers to access Internet content on their TVs or other...

IEEE Xplore | IEEE CONFERENCES | 01-MAR-2008 | 2008 Sixth Annual IEEE International Conference on Pervasive Computing and Communications (PerCom) (Page(s): 20-29)

32. Suggesting Software Components for Reuse in Search Engines Using Discovered Knowledge Techniques

The software reuse initiatives are better implemented when there is an efficient way to find the reusable assets. However, the search and retrieval of such information is considered a big deal in literature, once there is a gap between what the software engineer would like to retrieve and what is...

IEEE Xplore | IEEE CONFERENCES | 01-AUG-2009 | 2009 35th Euromicro Conference on Software Engineering and Advanced Applications (Page(s): 412-419)

33. Towards a Semantic Extract-Transform-Load (ETL) Framework for Big Data Integration

Big Data has become the new ubiquitous term used to describe massive collection of datasets that are difficult to process using traditional database and software techniques. Most of this data is inaccessible to users, as we need technology and tools to find, transform, analyze, and visualize data in...

IEEE Xplore | IEEE CONFERENCES | 01-JUN-2014 | 2014 IEEE International Congress on Big Data (Page(s): 522-529)

34. Condition Data Aggregation with Application to Failure Rate Calculation of Power Transformers

Cost-effective equipment maintenance for electric power transmission systems requires ongoing integration of information from multiple, highly distributed, and heterogeneous data sources storing various information about equipment. This paper describes a federated, query-centric data integration and...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2006 | Proceedings of the 39th Annual Hawaii International Conference on System Sciences (HICSS'06)

35. Creating knowledge from heterogeneous data stove pipes

The modern day challenges posed by terrorism and crime mean that we must make better use of the data we collect. We need to create a process that can transform different types of explicit and structured data into actionable knowledge. We need to be able to create unified infrastructure that will...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2002 | Proceedings of the Fifth International Conference on Information Fusion. FUSION 2002. (IEEE Cat.No.02EX5997)

36. An intelligent knowledge sharing system for web communities

This paper presents an expert peering system for information exchange in the knowledge society. Our system realizes an intelligent, real-time search engine for enterprise Intranets or online communities that automatically relays user queries to knowledgable specialists. According to its very nature,...

IEEE Xplore | IEEE CONFERENCES | 01-OCT-2007 | 2007 IEEE International Conference on Systems, Man and Cybernetics (Page(s): 3069-3074)

37. Automatic extraction of topics on big data streams through scalable advanced analysis

Extracting words, data patterns and topic models from streaming big data by way of real-time processing is a challenging job. Currently, many of applied machine learning techniques in data mining aim to utilize online feedbacks by making model updates faster and quicker. However, Mahout and Massive...

IEEE Xplore | IEEE CONFERENCES | 01-JUL-2013 | 2013 International Computer Science and Engineering Conference (ICSEC) (Page(s): 255-260)

Discover Map

STIC

38. Approach for Discovering and Tracking Local Web Search Trends

Detecting and understanding Web search intention have considerably gained in interest during the last years. This is challenging in mobile environments due to the impact of ubiquity on the mining process: changing user's context influences the information needs, resource constraints affect the...

IEEE Xplore | IEEE CONFERENCES | 01-NOV-2009 | 2009 Latin American Web Congress (Page(s): 201-206)

39. Mass collaboration: a case study {customer support system}

We present an overview of a novel customer support system developed at QUIQ between 1999 and 2003. The application was perhaps the first systematic use of mass collaboration, which builds on the observation that large communities of users can be effectively leveraged to help each other, and to...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2004 | Proceedings. International Database Engineering and Applications Symposium, 2004. IDEAS '04. (Page(s): 133-146)

40. A Survey: Soft Computing in Intelligent Information Retrieval Systems

this paper provides an in-depth survey of challenges in the design of intelligent information retrieval systems, pointing out some similarities and differences in the core data mining and web based search operations. The procedures for evaluation of search engine performance and implicit feedback of...

IEEE Xplore | IEEE CONFERENCES | 01-JUN-2012 | 2012 12th International Conference on Computational Science and Its Applications (Page(s): 26-34)

41. Giving voice to office customers: Best practices in how office handles verbatim text feedback

Microsoft Office users submit hundreds of thousands of pieces of verbatim feedback per month. How can an engineer or manager in Office find the signal in this data to make business decisions? This paper presents an overview of the Office Customer Voice (OCV) system. OCV combines classification,...

IEEE Xplore | IEEE CONFERENCES | 01-DEC-2016 | 2016 IEEE International Conference on Big Data (Big Data) (Page(s): 3826-3832)

42. Mining hidden constrained streams in practice: Informed search in dynamic filter spaces

In this paper we tackle the recently proposed problem of hidden streams. In many situations, the data stream that we are interested in, is not directly accessible. Instead, part of the data can be accessed only through applying filters (e.g. keyword filtering). In fact this is the case of the most...

IEEE Xplore | IEEE CONFERENCES | 01-AUG-2016 | 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM) (Page(s): 571-578)

43. A hybrid approach to personalized web search

Technology develops rapidly and information floods. In the information explosion era, what people lack is not the scale of information but how to obtain the needed information quickly and accurately. Personalized search and service emerges. And the key problem is to make clear the needs of the...

IEEE Xplore | IEEE CONFERENCES | 01-MAY-2012 | Proceedings of the 2012 IEEE 16th International Conference on Computer Supported Cooperative Work in Design (CSCWD) (Page(s): 214-220)

44. Determination of user opinion based on IPTV data

IPTV has been widely deployed throughout the world, bringing significant advantages to users in terms of the channel offering, video on demand, and interactive applications. TV set-top boxes that are deployed in modern IPTV systems can be thought of as capable sensor nodes that collect vast amounts...

IEEE Xplore | IEEE CONFERENCES | 01-JUL-2016 | 2016 18th International Conference on Transparent Optical Networks (ICTON) (Page(s): 1-5)

45. Social Media Data Aggregation and Mining for Internet-Scale Customer Relationship Management

Industry and government organisations across the world increasingly use social media for Customer Relationship Management (CRM) activities that include communicating with customers about their services/products and distilling customer opinions for assessing their effectiveness. In this paper, we...

IEEE Xplore | IEEE CONFERENCES | 01-AUG-2015 | 2015 IEEE International Conference on Information Reuse and Integration (Page(s): 39-48)

46. The Convergence of Big Data and Mobile Computing

In recent years, we have witnessed the influx of data driven by the exponential use of digital video, music, and mobile applications. The combination of the internet, mobile technologies and social media applications has been the most influential factor in the emergence of Big Data paradigm. Given...

IEEE Xplore | IEEE CONFERENCES | 01-SEP-2013 | 2013 16th International Conference on Network-Based Information Systems (Page(s): 79-84)

Data warehouse as a part of the higher education information system in Croatia

47. Although the idea of a decision support system resourceful in querying and analysis can be traced back to the 1960s, it was not until the late 1990s that data warehousing was universally recognized and adopted. We address issues related to modelling and implementing a data warehouse for the higher...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2003 | Proceedings of the 25th International Conference on Information Technology Interfaces, 2003. ITI 2003. (Page(s): 121-126)

48. Ontology driven data mining and information visualization for the networked home

Data mining is the process of extracting hidden knowledge from data. As more data is gathered, data mining is becoming an increasingly important tool to transform this data into information. Visualization is central to data mining. Information visualization is the process of turning abstract data...

IEEE Xplore | IEEE CONFERENCES | 01-MAY-2010 | 2010 Fourth International Conference on Research Challenges in Information Science (RCIS) (Page(s): 147-156)

49. An intelligent agent-based meta search

By combinating agent theory and meta search engine, design a reflecting individual query meta search engine model which has a reasonable structure, excellent functionality, and providing integration technology related areas. It is better to help users quickly and accurately search the information to...

IEEE Xplore | IEEE CONFERENCES | 01-OCT-2010 | 2010 International Conference on Future Information Technology and Management Engineering

50. The Strategic IP Insight Platform (SIIP): A Foundation for Discovery

With billions at stake in new product development, acquisitions and alliances, IBM's Strategic IP Insight Platform (SIIP) delivers transformative results, helping clients gain strategic insights. Applied to the pharmaceutical industry, SIIP accelerates the discovery of information to more quickly ...

IEEE Xplore | IEEE CONFERENCES | 01-APR-2014 | 2014 Annual SRII Global Conference (Page(s): 27-34)

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Did you mean:

Adaptive filters for continuous **queries** over distributed **data** streams

C Olston, J Jiang, J Widom - ... conference on Management of **data**, 2003 - dl.acm.org

... Some work on **real-time** databases, eg, [15], focuses on scheduling multiple complex, **time**-consuming computation tasks that yield imprecise results that improve over **time**. **...** to minimize communication cost while satisfying the precision con- straints of all **queries** at all **times**. **...**

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Issues in **data** stream management

L Golab, MT Özsu - ACM Sigmod Record, 2003 - dl.acm.org

... A **real-time data** stream is a sequence of **data** items that arrive in some order and may be seen only once. **...** 10, 70] is a sensor database that models sensors as ADTs and their output as **time** series. **...** OpenCQ [48] is another continuous **query** sys- tem for **monitoring** streaming Web **...**

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D Carney, U Çetintemel, M Cherniack... - ... on Very Large **Data** ..., 2002 - dl.acm.org

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... mouse 18 to manipulate a cursor moved about on the screen of the **monitor 14** to make ... By having the client intermittently inform the server of the **times** that it received transmitted packets ... The **real time** video taught by the present invention is an integral part of such an application. ...

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G Gerba, RE Lambert, H Meiseles, M Nichols - US Patent 5,931,908, 1999 - Google Patents

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System for **real-time monitor** and response

RC Grinter, D Alvarez - US Patent 6,606,304, 2003 - Google Patents

... of the **data** base of information is important to the system because the **rule** based processing **...** Incident—an event or events defined by the processing **rules** as an incident. **...** US8244908 *, Mar 16, 2009, Aug **14**, 2012, Nec Corporation, System, method and program for distributed **...**

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G Pancha, AA Wilson, S Suresh, SA Lord - US Patent 6,823,373, 2004 - Google Patents

... In contrast, an adapter is a **real** component that does an actual function **...** the extracted second **set** of **data** is generalized based upon application specific **rules** prior to **...** US7434226 *, Dec **14**, 2004, Oct 7, 2008, Scenera Technologies, Llc, Method and system for **monitoring** a workflow **...**

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Missing: real

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Rational Insight Deployment for Rational SVT Dashboard - Library ...
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Jun 13, 2011 - Team leaders created quite a few queries in Rational Team Concert (RTC) to get ... the user proficiency level, this manual work really costs presenters some time. .. ETL is scheduled for daily data update of insight data warehouse. ... Gather their feedback to improve not only the reports, but also the communication way, the ...

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Aug 4, 2011 - The ultimate purpose of the system is communication of results to internal or ... A data warehouse is a central database for transaction-level data from more .... 3) Rule-based expert systems function on the basis of set rules to arrive at an answer. ... 2) In batch processing, the user cannot influence the process once the job ...

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Jul 20, 2010 - But while customer feedback survey data does create competitive advantage, ... gathering customer feedback is to enable communications between you and ... There are a variety of ways to gather feedback from customers these days, ... your time is best spent gathering that input rather than translating all the data together.

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Jul 5, 2012 - Use what you know about JPA and Drools 5 and learn even more while implementing a continuous, real-time data profiling application. ... Drools 5, from JBoss Community, is an open source alternative that seamlessly integrates a ... engine and rule engine via a set of unified APIs and a shared, stateful knowledge session.

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Aug 17, 2010 - **UPDATED** October 2015 ... Using the Force.com SOAP API for Large **Data Sets** ... set and segment your records out into chunks of 200 or fewer records at at time. ... What's the best way to do this so that others can **monitor** progress? ..... you can use to learn how to program against the Bulk API is the open **source** Apex **Data** ...

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Chadha & Chadha IP - Intellectual Property Firm, India
Ad www.canddip.com/
Patent & Trademark Attorneys

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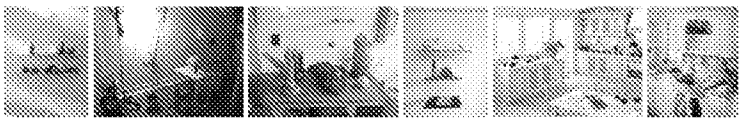
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	14960309	CHADHA ET AL.
	Examiner	Art Unit
	MICHAEL PHAM	2167

CPC- SEARCHED		
Symbol	Date	Examiner
G06F17/30672, G06F17/30442, and G06F17/30796	6/24/2017	MP

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
707	722, 765	6/24/2017	MP

SEARCH NOTES		
Search Notes	Date	Examiner
npl search (google, google scholar, ip.com)	6/24/2017	MP
East search	6/24/2017	MP
G06F17/30672, G06F17/30442, and G06F17/30796 see search history printouts	6/24/2017	MP
707/722, 765 see search history printouts	6/24/2017	MP

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
G06F	17/30672, 17/30442, and 17/30796 uspat uspgpub	6/24/2017	MP
707	722, 765	6/24/2017	MP

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L15	1	(chadha-sharon or cheng-xin or chadha-parvinder).in. and @ad<"20120802" and (monitor$3 or track$3) and feedback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/24 12:48
L14	0	(chadha-sharon or cheng-xin or chadha-parvinder).in. and @ad<"20120802" and (monitor$3 or track$3) feedback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/24 12:48
L13	0	(chadha-sharon or cheng-xin or chadha-parvinder).in. and @ad<"20120802" and (monitor$3 or track$3) data source updat$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/24 12:48
L12	14	(chadha-sharon or cheng-xin or chadha-parvinder).in. and @ad<"20120802" and (monitor$3 or track$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/24 12:47
L11	124	(chadha-sharon or cheng-xin or chadha-parvinder).in. and @ad<"20120802"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/24 12:47
L10	540	(chadha-sharon or cheng-xin or chadha-parvinder).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/24 12:47

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L9	2	@ad<"20120802" and (monitor$3 or track$3) database data update query and ((G06F17/30672, G06F17/30442, and G06F17/30796).CPC. or(707/765 or 707/722).ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/24 12:46
L8	4	@ad<"20120802" and (monitor$3 or track$3) data source data update query and ((G06F17/30672, G06F17/30442, and G06F17/30796).CPC. or(707/765 or 707/722).ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/24 12:45
L7	1	@ad<"20120802" and monitoring data source data update query and ((G06F17/30672, G06F17/30442, and G06F17/30796).CPC. or(707/765 or 707/722).ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/24 12:45
L6	25	@ad<"20120802" and monitoring data source and ((G06F17/30672, G06F17/30442, and G06F17/30796).CPC. or(707/765 or 707/722).ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/24 12:44
S1960	3	"20100332520"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/23 19:33
S1959	2	"20130231582"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/23 19:31
S1952	262	blend$3 search result and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/23 17:21
S1951	1032	blend$3 search result	US-PGPUB; USPAT;	SAME	OFF	2017/06/23 17:21

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1950	3175	blend$3 search	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/23 17:21
S1949	0	"travis.in" and search blend$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/23 17:20
S1948	16	"13/928313"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/23 17:04
S1947	16	"13928313"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/06/23 17:04

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	25	@ad<"20120802" and monitoring data source and ((G06F17/30672, G06F17/30442, and G06F17/30796).CPC. or(707/765 or 707/722).ccls.)	US-PGPUB; USPAT	SAME	OFF	2017/06/24 12:44
L4	25	@ad<"20120802" and monitoring data source and((G06F17/30672, G06F17/30442, and G06F17/30796).CPC. or(707/765 or 707/722).ccls.)	US-PGPUB; USPAT	SAME	OFF	2017/06/24 12:44
L3	62	monitoring data source and((G06F17/30672, G06F17/30442, and G06F17/30796).CPC. or(	US-PGPUB; USPAT	SAME	OFF	2017/06/24 12:44

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L2	0	monitoring set query scheduled update data data sources two way communication feedback user and((G06F17/30672, G06F17/30442, and G06F17/30796).CPC. or(707/765 or 707/722).ccls.)	US-PGPUB; USPAT	SAME	OFF	2017/06/24 12:44
L1	0	monitoring set query scheduled update data data sources two way communication feedback user	US-PGPUB; USPAT	SAME	OFF	2017/06/24 12:43
S1958	52	select$3 ("data source" or location) search threshold accura$3 and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/06/23 16:59
S1957	1002	select$3 ("data source" or location) search threshold and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/06/23 16:59
S1956	0	select$3 ("data source" or location) search based on accuracy threshold and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/06/23 16:59
S1955	21	threshold search results select data source and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/06/23 16:56
S1954	31	threshold search results select data source	US-PGPUB; USPAT	SAME	OFF	2017/06/23 16:53
S1953	2	accuracy threshold search results select data source	US-PGPUB; USPAT	SAME	OFF	2017/06/23 16:52

6/24/2017 12:49:11 PM
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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	14/960,309	Filing Date	2015-12-04	Docket Number (if applicable)	79531-000022	Art Unit	2167
First Named Inventor	SHARON GILL CHADHA			Examiner Name	MICHAEL PHAM		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, to any international application that does not comply with the requirements of 35 U.S.C. 371, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV.

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☒ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☐ Enclosed

- ☐ Amendment/Reply
- ☐ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 191351

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (07-14)
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Signature of Registered U.S. Patent Practitioner			
Signature	/Puya Partow-Navid/	Date (YYYY-MM-DD)	2017-05-09
Name	PUYA PARTOW-NAVID	Registration Number	59657

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	14960309
Filing Date:	04-Dec-2015
Title of Invention:	REAL-TIME AND ADAPTIVE DATA MINING
First Named Inventor/Applicant Name:	Sharon Gill CHADHA
Filer:	Puya Partow-Navid/Gayle Vinson
Attorney Docket Number:	79531-000022

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

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Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 1st Request	2801	1	600	600
		Total in USD ($)		**600**

IPR2025-00623
UIPATH EXHIBIT 1002

Electronic Acknowledgement Receipt

EFS ID:	29157128
Application Number:	14960309
International Application Number:	
Confirmation Number:	1063
Title of Invention:	REAL-TIME AND ADAPTIVE DATA MINING
First Named Inventor/Applicant Name:	Sharon Gill CHADHA
Customer Number:	98275
Filer:	Puya Partow-Navid/Gayle Vinson
Filer Authorized By:	Puya Partow-Navid
Attorney Docket Number:	79531-000022
Receipt Date:	09-MAY-2017
Filing Date:	04-DEC-2015
Time Stamp:	14:19:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$600
RAM confirmation Number	051017INTEFSW00000737191351
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

IPR2025-00623
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	79531-000022_RCE_AsFiled_09May2017.pdf	1363806 c34159a36c89310bc2eb8d659401ababc4ce0ab5	no	3
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30322 26c582e0990d03b9c32a7e7103fbeb2fba10c110	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1394128		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/960,309	12/04/2015	Sharon Gill CHADHA	79531-000022	1063

98275 7590 05/03/2017

Seyfarth Shaw LLP
2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3063

EXAMINER	
PHAM, MICHAEL	

ART UNIT	PAPER NUMBER
2167	

NOTIFICATION DATE	DELIVERY MODE
05/03/2017	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

laxipdocket@seyfarth.com

Advisory Action Before the Filing of an Appeal Brief	**Application No.** 14/960,309	**Applicant(s)** CHADHA ET AL.	
	Examiner MICHAEL PHAM	**Art Unit** 2167	**AIA (First Inventor to File) Status** No

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 10 April 2017 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☒ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance;

(2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:

a) ☐ The period for reply expires _____months from the mailing date of the final rejection.

b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection. The current period for reply expires months from the mailing date of *the prior Advisory Action* or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.

Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANT'S FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☒ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   a) ☒ They raise new issues that would require further consideration and/or search (see NOTE below);
   b) ☐ They raise the issue of new matter (see NOTE below);
   c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

   NOTE: *See Continuation Sheet*. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5. ☐ Applicant's reply has overcome the following rejection(s): _____.

6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7. ☒ For purposes of appeal, the proposed amendment(s): (a) ☒ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☐ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:

_____.

13. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____

14. ☒ Other: attached afcp 2.0 decision ptol-2323.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: .
Claim(s) objected to: .
Claim(s) rejected: 1-20.
Claim(s) withdrawn from consideration: .

/ROBERT BEAUSOLIEL JR/ Supervisory Patent Examiner, Art Unit 2167	

Continuation of 3. NOTE: The amendments directed towards claims 1, 8, 11, and 16 change the claim scope, further consideration and/or search is required. Additionally, claims 21-23 have been added and would also require further consideration and/or search.

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UIPATH EXHIBIT 1002

AFCP 2.0 Decision	Application No.	Applicant(s)
	14/960,309	CHADHA ET AL.
	Examiner	Art Unit
	MICHAEL PHAM	2167

This is in response to the After Final Consideration Pilot request filed 10 April 2017.

1. **Improper Request** – The AFCP 2.0 request is improper for the following reason(s) and the after final amendment submitted with the request will be treated under pre-pilot procedure.

   ☐ An AFCP 2.0 request form PTO/SB/434 (or equivalent document) was not submitted.

   ☐ A non-broadening amendment to at least one independent claim was not submitted.

   ☐ A proper AFCP 2.0 request was submitted in response to the most recent final rejection.

   ☐ Other:

2. **Proper Request**

   A. After final amendment submitted with the request will not be treated under AFCP 2.0.
   The after final amendment cannot be reviewed and a search conducted within the guidelines of the pilot program.

   ☒ The after final amendment will be treated under pre-pilot procedure.

   B. Updated search and/or completed additional consideration.
   The examiner performed an updated search and/or completed additional consideration of the after final amendment within the time authorized for the pilot program. The result(s) of the updated search and/or completed additional consideration are:

   ☐ 1. All of the rejections in the most recent final Office action are overcome and a Notice of Allowance is issued herewith.

   ☐ 2. The after final amendment would not overcome all of the rejections in the most recent final Office action. See attached interview summary for further details.

   ☐ 3. The after final amendment was reviewed, and it raises a new issue(s). See attached interview summary for further details.

   ☐ 4. The after final amendment raises new issues, but would overcome all of the rejections in the most recent final Office action. A decision on determining allowability could not be made within the guidelines of the pilot. See attached interview summary for further details, including any newly discovered prior art.

   ☐ 5. Other:

   Examiner Note: Please attach an interview summary when necessary as described above.

DO NOT ENTER: /M.P/

04/25/2017

PATENT
Docket No.: 79531-000022

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Sharon Gill Chadha et al.	Customer No.: 98275
Application No.: 14/960,309	Art Unit: 2167
Filed: December 4, 2015	Confirmation No.: 1063
For: REAL-TIME AND ADAPTIVE DATA MINING	Examiner: MICHAEL PHAM

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT UNDER 37 C.F.R. 1.116

Dear Commissioner:

In response to the Final Office Action dated February 9, 2017, reconsideration and further examination of the above-identified application are respectfully requested based on the following:

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 7 of this paper.

IPR2025-00623
UIPATH EXHIBIT 1002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Sharon Gill Chadha et al.	Customer No.: 98275
Application No.: 14/960,309	Art Unit: 2167
Filed: December 4, 2015	Confirmation No.: 1063
For: REAL-TIME AND ADAPTIVE DATA MINING	Examiner: MICHAEL PHAM

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT UNDER 37 C.F.R. 1.116

Dear Commissioner:

In response to the Final Office Action dated February 9, 2017, reconsideration and further examination of the above-identified application are respectfully requested based on the following:

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 7 of this paper.

IPR2025-00623
UIPATH EXHIBIT 1002

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of analyzing data, comprising:

generating, by a first entity[[user]], a query based at least in part on a topic of interest;

executing the query on a plurality of data sources;

selecting, by the first entity, at least one data source from the plurality of data sources based at least in part on results of the executed query;

monitoring, based on a set schedule, the at least one data source selected by the first entity ~~from the plurality of data sources~~ for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof;

analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;

establishing a two-way communication channel, [[with]] between at least the first entity that selected the at least one data source for monitoring and a second[[user]] entity associated with the extracted data, based at least in part on the analysis of the extracted data; and

receiving feedback from the second user via the two-way communication channel in response to a communication from the first entity via [[on]] the ~~established~~ two-way communication channel.

2. (Cancelled)

3. (Currently Amended) The method of claim [[2]] 1, further comprising visualizing at least one of the extracted data, the analyzed data, or a combination thereof.

4. (Previously Presented) The method of claim 1, further comprising:

refining the search terms based at least in part on the executed query, and in which the monitoring is performed to monitor for matches to a refined query.

5. (Previously Presented) The method of claim 1, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that are not publically accessible.

6. (Previously Presented) The method of claim 1, in which the query is a natural language query, and

further comprising translating the query to a system understood language.

7. (Previously Presented) The method of claim 1, in which the plurality of data sources are pre-defined.

8. (Currently Amended) The method of claim 1, further comprising[[:]] expanding search terms of the query; and

~~selecting the at least one data source from the plurality of data sources,~~ in which the at least one data source[[being]]

is selected by the first entity based on [[when]] results of the query [[are]] being greater than or equal to accuracy thresholds.

9. (Previously Presented) The method of claim 8, in which expanding the query comprises expanding the search terms to include at least misspellings, synonyms, sub-topics, antonyms, or a combination thereof.

10. (Previously Presented) The method of claim 1, in which the monitoring comprises deploying extractors to each of specific data source, a number of extractors being dynamic based at least in part on a traffic volume of each specific data source.

11. (Currently Amended) An apparatus for analyzing data, the apparatus comprising:

a memory; and

at least one processor coupled to the memory, the at least one processor being configured:

to generate, by a first entity[[user]], a query based at least in part on a topic of interest;

to execute the query on a plurality of data sources;

to select, by the first entity, at least one data source from the plurality of data sources based at least in part on results of the executed query;

to monitor, based on a set schedule, the at least one data source selected by the first entity ~~from the plurality of data sources~~ for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof;

to analyze the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;

to establish a two-way communication channel, [[with]] between at least the first entity that selected the at least one data source for monitoring and a second[[user]] entity associated with the extracted data, based at least in part on the analysis of the extracted data; and

to receive feedback from the second user via the two-way communication channel in response to a communication from the first entity via [[on]] the ~~established~~ two-way communication channel.

12. (Cancelled)

13. (Currently Amended) The apparatus of claim [[12]] 11, in which the at least one processor is further configured to visualize at least one of the extracted data, the analyzed data, or a combination thereof.

14. (Previously Presented) The apparatus of claim 11, in which the at least one processor is further configured:

to refine the search terms based at least in part on the executed query,

to monitor for matches to a refined query.

15. (Previously Presented) The apparatus of claim 11, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that are not publically accessible.

16. (Currently Amended) A non-transitory computer-readable medium having program code recorded thereon for analyzing data, the program code being executed by a processor and comprising:

program code to generate, by a first entity[[user]], a query based at least in part on a topic of interest;

program code to execute the query on a plurality of data sources;

program code to select, by the first entity, at least one data source from the plurality of data sources based at least in part on results of the executed query;

program code to monitor, based on a set schedule, the at least one data source selected by the first entity ~~from the plurality of data sources~~ for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof;

program code to analyze the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;

program code to establish a two-way communication channel, [[with]] between at least the first entity that selected the at least one data source for monitoring and a second[[user]] entity associated with the extracted data, based at least in part on the analysis of the extracted data; and

program code to receive feedback from the second user via the two-way communication channel in response to a communication from the first entity via [[on]] the ~~established~~ two-way communication channel.

17. (Cancelled)

18. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the program code further comprises:

program code to refine the search terms based at least in part on the executed query,

program code to monitor for matches to a refined query.

19. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that are not publically accessible.

20. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the plurality of data sources are pre-defined.

21. (New) The method of claim 1, in which the communication channel comprises at least one of short message service (SMS), click-to-voice, interactive voice response (IVR), e-mail, phone, Internet protocol, message board, social media, digital communication, or a combination thereof.

22. (New) The apparatus of claim 11, in which the communication channel comprises at least one of short message service (SMS), click-to-voice, interactive voice response (IVR), e-mail, phone, Internet protocol, message board, social media, digital communication, or a combination thereof.

23. (New) The non-transitory computer-readable medium of claim 16, in which the communication channel comprises at least one of short message service (SMS), click-to-voice, interactive voice response (IVR), e-mail, phone, Internet protocol, message board, social media, digital communication, or a combination thereof.

REMARKS

In response to the Final Office Action dated February 9, 2017, the Office Action's claim rejections have been considered. Claims 1-20 are pending. Claims 2, 12, and 17 have been cancelled without prejudice or disclaimer of the subject matter. Claims 21-23 are newly submitted. No new matter is added. Support for the amended claims is provided at least in paragraphs 31 and 80-81 of the published specification (US 2016/0085823). Applicants respectfully traverse all rejections of all pending claims and earnestly solicit allowance of these claims.

Telephonic Interview Summary

Applicants express their appreciation to the Examiner for discussing the present application on March 17 and March 28, 2017. During the interviews, applicants' representative discussed the claimed two-way communication channel and the feedback of the first user and the second user of Aggarwal. The Examiner indicated that amending the claims to recite that the communication channel comprises short message service (SMS), click-to-voice, interactive voice response (IVR), e-mail, and/or phone would overcome the current rejections. The current amendments differ from those discussed during the interviews.

Obviousness-Type Double Patenting Rejection

Claims 1-20 stand provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7, 9-15, and 19-21 of U.S. Patent No. 9,229,977 ("Chadha") in view of U.S. Patent No. 8,260,774 ("Aggarwal").

Applicants acknowledge the provisional obviousness-type double patenting rejection and respectfully request that the Examiner hold the requirement for a terminal disclaimer in abeyance and reconsider the obviousness-type double patenting rejection after examination on the merits of all claims in the present application. At that point, if the Examiner still believes an obviousness-type double patenting rejection is appropriate, applicants will reconsider filing a terminal disclaimer to obviate the double patenting rejections in compliance with 37 CFR § 1.321 (b) and (c).

Claim Rejections - 35 U.S.C. § 103

Claims 1-20 are rejected under pre-AIA 35 U.S.C. § 103(a) as allegedly being unpatentable over U.S. Patent No. 6,260,041 ("Gonzalez") in view of U.S. Patent No. 8,260,774 ("Aggarwal"). Applicants respectfully traverse these rejections and reconsideration and withdrawal of these rejections are respectfully requested.

As amended, claim 1 recites:

> A method of analyzing data, comprising:
>
> generating, by a first entity, a query based at least in part on a topic of interest;
>
> executing the query on a plurality of data sources;
>
> selecting, by the first entity, at least one data source from the plurality of data sources based at least in part on results of the executed query;
>
> monitoring, based on a set schedule, the at least one data source selected by the first entity for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof;
>
> analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;
>
> establishing a two-way communication channel, between at least the first entity that selected the at least one data source for monitoring and a second entity associated with the extracted data, based at least in part on the analysis of the extracted data; and
>
> receiving feedback from the second user via the two-way communication channel in response to a communication from the first entity via the two-way communication channel.

Page 8 of the Office Action alleges that col. 4 lines 21-25 of Gonzalez disclose "executing the query on a plurality of data sources." The cited portions of Gonzalez arguably disclose culling out or returning desired search terms from a resource location. Still, after culling out or returning desired search terms, Gonzalez does not disclose that the first entity selects "at least one data source from the plurality of data sources based at least in part on results of the

executed query." Therefore, applicants submit that Gonzalez fails to teach or suggest "selecting, by the first entity, at least one data source from the plurality of data sources based at least in part on results of the executed query," as recited in claim 1.

Pages 8-9 of the Office Action allege that col. 1 line 51, col. 2 lines 60-61, and col. 2 lines 50-54 of Gonzalez disclose "monitoring, based on a set schedule, at least one data source selected from the plurality of data sources or matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof."

As discussed on page 9 of the Office Action, col. 1 line 51 of Gonzalez discloses "periodic access of each resource location listed." That is, Gonzalez arguably performs periodic monitoring of every resource location listed. Gonzalez does not monitor one or more data sources selected by a first entity based on results of a query. Therefore, Gonzalez does not disclose "monitoring, based on a set schedule, the at least one data source *selected by the first entity [based at least in part on results of the executed query]* for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof," as recited in claim 1 (emphasis added).

Page 9 of the Office Action states that Gonzalez does not disclose "establishing a communication channel, with a second user, based at least in part on the analysis of the extracted data." Page 9 of the Office Action also alleges that elements 410 and 420 of FIGURE 4 of Aggarwal cure the stated deficiencies of Gonzalez.

Additionally, page 9 of the Office Action states that Gonzalez does not disclose "receiving feedback from the second user in response to a communication on the established communication channel." Page 10 of the Office Action alleges that element 420 of FIGURE 4 of Aggarwal cures the stated deficiencies of Gonzalez. Applicants provide the following remarks.

As a first point, because Gonzalez does not disclose "establishing a communication channel, with a second user, based at least in part on the analysis of the extracted data" and

"receiving feedback from the second user in response to a communication on the established communication channel," Gonzalez also does not disclose "establishing a two-way communication channel, between at least the first entity that selected the at least one data source for monitoring and a second entity associated with the extracted data, based at least in part on the analysis of the extracted data" and "receiving feedback from the second user via the two-way communication channel in response to a communication from the first entity via the two-way communication channel," as recited in claim 1.

Col. 2 lines 40-48 of Aggarwal disclose:

> a personalization search engine (hereinafter "PSE"). The PSE identifies various portions of indexed content that match a search query. The PSE then analyzes metadata referenced by each matching portion of indexed content in order to determine how relevant each portion of the indexed content is to the source of the search query. The PSE ranks the portions of indexed content according to how relevant each object is to source of the search query.

Col. 2 lines 60-67 of Aggarwal disclose:

> In order to determine how relevant an object is to the source of the search query (such as a "first user"), in one embodiment, the PSE considers the online activities of the first user providing the search query. *For example, the PSE analyzes feedback (e.g. reviews, ratings, comments, user-created online content) the first user has previously created for various websites and utilizes the feedback in identifying the relevance each object has to the first user.* (Emphasis added.)

Col. 3 lines 1-13 of Aggarwal disclose:

> In addition, the PSE analyzes the *feedback provided from a second user (and/or other users) to determine whether the second user has similar tastes, preferences and opinions as the first user who provided the search query.* If the PSE determines the second user most likely has similar preferences as the first user, the PSE identifies an object(s) associated with feedback from the second user and determines that object has a relatively high degree of relevance to the first user. Thus, because the PSE has identified

the second user as a person whose feedback is most likely indicative of information the first user would consume (or not consume), the PSE ranks an object associated with the second user's feedback in accordance with its relevance to the first user.

As discussed in col. 11 lines 22-25, at step 410 of FIGURE 4 of Aggarwal, "the PSE 150 identifies personal feedback associated with an online version of a first object, the personal feedback created by the first source providing the search criteria." Furthermore, col. 11 lines 25-29 of Aggarwal disclose that step 420 of FIGURE 4 discloses "the PSE 150 identifies first feedback and second feedback created by at least one different source, the first feedback associated with the online version of the first object, the second feedback associated with an online version of a second object."

In view of the remarks presented above, a first user of Aggarwal generates a search and the search engine "considers the online activities of the first user providing the search query." For example, the search engine *"analyzes feedback (e.g. reviews, ratings, comments, user-created online content) the first user has previously created for various websites and utilizes* the feedback in identifying the relevance each object has to the first user." (Emphasis added.) (Aggarwal, col. 2 lines 63-67).

Additionally, the search engine of Aggarwal analyzes feedback *(e.g. reviews, ratings, comments, user-created online content)* of a second user *to determine whether the second user has similar tastes, preferences and opinions as the first user who provided the search query.* After analyzing the feedback of the first user and the second user, at step 430, the search engine determines if there is a similarity between the feedback and sentiment of the first user and the feedback and sentiment of the second user (*see* Aggarwal, col. 11 lines 29-32). That is, the search engine of Aggarwal compares the feedback and sentiment of the first user to the feedback and sentiment of the second user to determine if there is a similarity, wherein a similarity is an indication of relevance of the source obtained from a query.

As discussed in Aggarwal, the feedback of each user refers to "reviews, ratings, comments, [and] user-created online content" provided by each user. That is, the feedback of

Aggarwal is a one-way communication from a user to an online source, for example, the one-way communication includes the user providing an online review on a source, providing an online rating on a source, providing a comment on a source, and/or providing user-created online content on a source. As is known to those of skill in the art, a user providing feedback, such as a "reviews, ratings, comments, [and] user-created online content," to an online source is not the same as establishing a two-way communication channel between the first user and the second user. Furthermore, identifying the aforementioned feedback is also not the same as establishing a two-way communication channel between the first user and the second user. Elements 410 and 420 of Aggarwal do not disclose establishing a two-way communication between a first user and a second user.

Additionally, element 430 of Aggarwal compares the feedback and sentiment of the users to determine similarities. Element 430 of Aggarwal does not state that the first user communicates with the second user via a two-way communication channel. At best, the search engine analyzes feedback of each user for similarities. As is known to those of skill in the art, comparing the feedback and sentiment of a first user to the feedback and sentiment of a second user is not the same as establishing a two-way communication channel between the first user and the second user. Element 430 of Aggarwal also does not disclose establishing a two-way communication channel between the first user and the second.

In view of the remarks above, applicants submit that Aggarwal fails to disclose "establishing a two-way communication channel, between at least the first entity that selected the at least one data source for monitoring and a second entity associated with the extracted data, based at least in part on the analysis of the extracted data," as recited in claim 1.

Assuming arguendo that the feedback of Aggarwal is similar to the claimed two-way communication channel, which it is not, Aggarwal still fails to disclose that the first user selects "the at least one data source for monitoring." Therefore, notwithstanding the previous remarks with regard to Aggarwal, Aggarwal does not disclose "establishing a two-way communication channel, between at least *the first entity that selected the at least one data source for monitoring*

and a second entity associated with the extracted data, based at least in part on the analysis of the extracted data," as recited in claim 1.

Furthermore, because Aggarwal does not disclose the cited elements of claim 1, Aggarwal also does not disclose "receiving feedback from the second user via the two-way communication channel in response to a communication from the first entity via the two-way communication channel," as recited in claim 1. Additionally, Aggarwal does not cure the stated deficiencies of Gonzalez.

In view of the remarks presented above, applicants submit that Gonzalez and Aggarwal fail to disclose various elements recited in claim 1. Therefore, claim 1 is allowable over the cited combination of references. Furthermore, the other rejected independent claims recite elements similar to those discussed above with respect to claim 1 and are believed to be allowable for reasons similar to those presented for claim 1. Finally, the rejected dependent claims are allowable at least by virtue of their dependence on an allowable base claim, in addition to reasons related to their own recitations.

Additionally, although not formally rejected, newly submitted claims 21-23 are allowable at least by virtue of their dependence on an allowable base claim, in addition to reasons related to their own recitations.

A request for After Final Consideration is presented based on the noted claim amendments that are presented after a Final Office Action.

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CONCLUSION

The absence of a reply to a specific rejection, issue, or comment does not signify agreement with or concession of that rejection, issue, or comment. In addition, because the arguments above may not be exhaustive, there may be other reasons for patentability of any or all claims that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper, and the amendment or cancellation of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment or cancellation.

In light of the amendments and remarks, applicants submit that the claims are in condition for allowance and respectfully request a notice to this effect. Should the Examiner have any questions, please call the undersigned at the phone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. § 1.136 is submitted. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 19-1351 and please credit any excess fees to such deposit account.

Dated: April 10, 2017

Respectfully submitted,

By: /Puya Partow-Navid/
Puya Partow-Navid, Reg. No. 59,657
Attorney for Applicants

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Doc Code: A.NE.AFCP
Document Description: After Final Consideration Pilot Program Request

PTO/SB/434 (05-13)

CERTIFICATION AND REQUEST FOR CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0

Practitioner Docket No.:	Application No.:	Filing Date:
79531-000022	14/960,309	December 4, 2015
First Named Inventor:	**Title:**	
Sharon Gill Chadha	REAL-TIME AND ADAPTIVE DATA MINING	

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0 (AFCP 2.0) OF THE ACCOMPANYING RESPONSE UNDER 37 CFR 1.116.

1. The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (*e.g.*, a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c).
2. The above-identified application contains an outstanding final rejection.
3. Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect.
4. This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection.
5. Applicant is willing and available to participate in any interview requested by the examiner concerning the present response.
6. This certification and request is being filed electronically using the Office's electronic filing system (EFS-Web).
7. Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.]
8. By filing this certification and request, applicant acknowledges the following:
    - Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0.
    - The examiner will verify that the AFCP 2.0 submission is compliant, *i.e.*, that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions:
        - The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration (i) is necessitated by the amendment and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, by mailing an advisory action.
        - If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview.
            - The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate.
            - If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116.

Signature	Date
/Puya Partow-Navid/	April 10, 2017
Name (Print/Typed)	**Practitioner Registration No.**
Puya Partow-Navid	59,657

***Note**: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.*

☑ * Total of 1 forms are submitted.

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Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	28884395
Application Number:	14960309
International Application Number:	
Confirmation Number:	1063
Title of Invention:	REAL-TIME AND ADAPTIVE DATA MINING
First Named Inventor/Applicant Name:	Sharon Gill CHADHA
Customer Number:	98275
Filer:	Puya Partow-Navid/Gayle Vinson
Filer Authorized By:	Puya Partow-Navid
Attorney Docket Number:	79531-000022
Receipt Date:	10-APR-2017
Filing Date:	04-DEC-2015
Time Stamp:	18:55:24
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		79531-000022_FOAR_AsFiled_10April2017.pdf	195557 3cb7b0f2b2dd272f2cb3a8d0d164af0e22654ebd	yes	14

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	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Response After Final Action	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	14

Warnings:					
Information:					
2	After Final Consideration Program Request	79531-000022_AFCP_AsFiled_10April2017.pdf	207723 8b1bf504eedd010dc135d6e310c528f1039f f4b3	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	403280		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/960,309	Filing Date 12/04/2015	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT **04/10/2017**

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $40 =	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $210 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
BRENDA HARRISON

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/960,309	12/04/2015	Sharon Gill CHADHA	79531-000022	1063

98275 7590 04/03/2017

Seyfarth Shaw LLP
2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3063

EXAMINER	
PHAM, MICHAEL	

ART UNIT	PAPER NUMBER
2167	

NOTIFICATION DATE	DELIVERY MODE
04/03/2017	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

laxipdocket@seyfarth.com

Applicant-Initiated Interview Summary	Application No.	Applicant(s)		
	14/960,309	CHADHA ET AL.		
	Examiner	Art Unit	AIA (First Inventor to File) Status	Page
	MICHAEL PHAM	2167	No	1 of 2

All participants (applicant, applicant's representative, PTO personnel):

1. MICHAEL PHAM (Examiner); Telephonic
2. Puya Partow-Navid (Attorney); Telephonic

Date of Interview: 28 March 2017

Claim(s) discussed: Proposed amendment of claim 1 was discussed.

Identification of prior art discussed: US 8260774

Amendment Proposed: Applicant's proposed amendments in relation to the establishing communication step and that the first user selected the data source in the monitoring step.

Brief Description of main topic of discussion: Examiner raised concern that the first user and second user two way communication could be construed to be provided in figure 4 illustrated in element 430 of Aggarwal. Indicating that establishing the communication (figure 4 430) between first user (personal) and second user (different sources) is made through the channels such as internet portal, email, social media, message board (user feedback in Aggrawal).. Examiner made suggestions to remove interent portal, email, social media, and message board. Examiner further suggested to amend "establishing a two-way communication channel, between at least the first user and a second user" to clarify the first user is the one that has established the monitoring and to further tighten the second user to the extracted data. Examiner further indicated that "the communication channel comprising" should be "the two way communication comprising" if the amendment were to proceed. While proposals were discussed, no agreement was yet reached.

Issues Discussed:

Item(s) under 35 U.S.C. 103:
Suggested amendments were discussed. No agreement was yet reached in regards to the claim limitations. Agreement during the discussion; however, was indicated that the establishing a communication channel step required some form of an amendment.

Attachment(s): Proposed Amendments

/MICHAEL PHAM/ Examiner, Art Unit 2167	

IPR2025-00623
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Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable time limit of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicant's responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04

Please further see:

MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Sharon Gill Chadha et al.	Customer No.: 98275
Application No.: 14/960,309	Art Unit: 2167
Filed: December 4, 2015	Confirmation No.: 1063
For: REAL-TIME AND ADAPTIVE DATA MINING	Examiner: MICHAEL PHAM

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT UNDER 37 C.F.R. 1.116

Dear Examiner,

The following is an agenda for the interview scheduled on March 17 at 12 PM (EST)

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of analyzing data, comprising:

generating, by a first user, a query based at least in part on a topic of interest;

executing the query on a plurality of data sources;

monitoring, based on a set schedule, at least one data source selected by the first user from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof;

analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;

establishing a two-way communication channel, [[with]] between at least the first user and a second user, based at least in part on the analysis of the extracted data, the communication channel comprising at least one of short message service (SMS), click-to-voice, interactive voice response (IVR), e-mail, phone, Internet portal, message board, social media, or a combination thereof; and

receiving feedback from the second user in response to a communication on the established communication channel.

[the other claims will be amended similar to claim 1]

2. (Previously Presented) The method of claim 1, further comprising:

analyzing the extracted data; and

receiving feedback from the user based at least in part on the established communication channel.

3. (Previously Presented) The method of claim 2, further comprising visualizing at least one of the extracted data, the analyzed data, or a combination thereof.

4. (Previously Presented) The method of claim 1, further comprising:

refining the search terms based at least in part on the executed query, and in which the monitoring is performed to monitor for matches to a refined query.

5. (Previously Presented) The method of claim 1, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that are not publically accessible.

6. (Previously Presented) The method of claim 1, in which the query is a natural language query, and

further comprising translating the query to a system understood language.

7. (Previously Presented) The method of claim 1, in which the plurality of data sources are pre-defined.

8. (Previously Presented) The method of claim 1, further comprising:

expanding search terms of the query; and

selecting the at least one data source from the plurality of data sources, the at least one data source being selected when results of the query are greater than or equal to accuracy thresholds.

9. (Previously Presented) The method of claim 8, in which expanding the query comprises expanding the search terms to include at least misspellings, synonyms, sub-topics, antonyms, or a combination thereof.

10. (Previously Presented) The method of claim 1, in which the monitoring comprises deploying extractors to each of specific data source, a number of extractors being dynamic based at least in part on a traffic volume of each specific data source.

11. (Previously Presented) An apparatus for analyzing data, the apparatus comprising:

a memory; and

at least one processor coupled to the memory, the at least one processor being configured:

to generate, by a first user, a query based at least in part on a topic of interest;

to execute the query on a plurality of data sources;

to monitor, based on a set schedule, at least one data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof;

to analyze the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;

to establish a communication channel, with a second user, based at least in part on the analysis of the extracted data; and

to receive feedback from the second user in response to a communication on the established communication channel.

12. (Previously Presented) The apparatus of claim 11, in which the at least one processor is further configured:

to analyze the extracted data; and

to receive feedback from the user based at least in part on the established communication channel.

13. (Previously Presented) The apparatus of claim 12, in which the at least one processor is further configured to visualize at least one of the extracted data, the analyzed data, or a combination thereof.

14. (Previously Presented) The apparatus of claim 11, in which the at least one processor is further configured:

to refine the search terms based at least in part on the executed query,

to monitor for matches to a refined query.

15. (Previously Presented)) The apparatus of claim 11, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that are not publically accessible.

16. (Previously Presented) A non-transitory computer-readable medium having program code recorded thereon for analyzing data, the program code being executed by a processor and comprising:

program code to generate, by a first user, a query based at least in part on a topic of interest;

program code to execute the query on a plurality of data sources;

program code to monitor, based on a set schedule, at least one data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof;

program code to analyze the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;

program code to establish a communication channel, with a second user, based at least in part on the analysis of the extracted data; and

program code to receive feedback from the second user in response to a communication on the established communication channel.

17. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the program code further comprises:

program code to analyze the extracted data; and

program code to receive feedback from the user based at least in part on the established communication channel.

18. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the program code further comprises:

program code to refine the search terms based at least in part on the executed query,

program code to monitor for matches to a refined query.

19. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that are not publically accessible.

20. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the plurality of data sources are pre-defined.

REMARKS

Obviousness-Type Double Patenting Rejection

Claims 1-20 stand provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7, 9-15, and 19-21 of U.S. Patent No. 9,229,977 ("Chadha") in view of U.S. Patent No. 8,260,774 ("Aggarwal").

Claim 1 recites:

> A method of analyzing data, comprising:
>
> generating, by a first user, a query based at least in part on a topic of interest;
>
> executing the query on a plurality of data sources;
>
> monitoring, based on a set schedule, at least one data source selected by the first user from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof;
>
> analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;
>
> establishing a two-way communication channel, between at least the first user and a second user, based at least in part on the analysis of the extracted data, the communication channel comprising at least one of short message service (SMS), click-to-voice, interactive voice response (IVR), e-mail, phone, Internet portal, message board, social media, or a combination thereof; and
>
> receiving feedback from the second user in response to a communication on the established communication channel.

The Office Action alleges that FIGURE 4 steps 410 and 420 of Aggarwal disclose the cited elements of claim 1, prior to the amendments. Applicants respectfully disagree.

As discussed in col. 11 lines 25-29 of Aggarwal, the PSE identifies first and second feedback created by at least one different source. Col. 2, lines 64-67 of Aggarwal disclose "PSE

analyzes feedback (e.g. reviews, ratings, comments, user-created online content) the first user has previously created for various websites and utilizes the feedback in identifying the relevance each object has to the first user."

Thus, the feedback of FIGURE 4 is reviews, ratings, comments, user-created online content. As an example, a user may leave a review on online content, step 420 of Aggarwal identifies these reviews. Identifying feedback left on online content is not the same as establishing a communication channel with a user.

Applicants believe Aggarwal does not disclose, at least, "monitoring, based on a set schedule, *at least one data source selected by the first user* from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof" and "establishing a two-way communication channel, between at least the first user and a second user, based at least in part on the analysis of the extracted data, the communication channel comprising at least one of short message service (SMS), click-to-voice, interactive voice response (IVR), e-mail, phone, Internet portal, message board, social media, or a combination thereof."

CONCLUSION

The absence of a reply to a specific rejection, issue, or comment does not signify agreement with or concession of that rejection, issue, or comment. In addition, because the arguments above may not be exhaustive, there may be other reasons for patentability of any or all claims that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper, and the amendment or cancellation of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment or cancellation.

In light of the amendments and remarks, applicants submit that the claims are in condition for allowance and respectfully request a notice to this effect. Should the Examiner have any questions, please call the undersigned at the phone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. § 1.136 is submitted. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 19-1351 and please credit any excess fees to such deposit account.

Dated: _____

Respectfully submitted,

By: _____
Puya Partow-Navid, Reg. No. 59,657
Attorney for Applicants

Seyfarth Shaw LLP
2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3021
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/960,309	12/04/2015	Sharon Gill CHADHA	79531-000022	1063

98275 7590 03/23/2017

Seyfarth Shaw LLP
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EXAMINER
PHAM, MICHAEL

ART UNIT	PAPER NUMBER
2167	

NOTIFICATION DATE	DELIVERY MODE
03/23/2017	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

laxipdocket@seyfarth.com

Applicant-Initiated Interview Summary	Application No.	Applicant(s)		
	14/960,309	CHADHA ET AL.		
	Examiner	Art Unit	AIA (First Inventor to File) Status	Page
	MICHAEL PHAM	2167	No	1 of 1

All participants (applicant, applicant's representative, PTO personnel):

1. MICHAEL PHAM (Examiner); Telephonic
2. Puya Partow-Navid (Attorney); Telephonic

Date of Interview: 17 March 2017

Brief Description of main topic of discussion: Applicant's discussed draft independent claims and further re-explained the invention based on the agenda. Discussed potential claim amendments in regards to the communication channel described on paragraph 0080 of application as published and to clarify more that the first user is more like a third party that observes the second user. While amendments were discussed no agreement was yet reahed in regards to the claimed limitations.

Issues Discussed:

Item(s) under 35 U.S.C. 103:
No agreement was yet reached in regards to the 103 with Gonzalez and Aggarwal.

/MICHAEL PHAM/ Examiner, Art Unit 2167	

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable time limit of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicant's responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04

Please further see:

MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

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ATTORNEYS

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Please deliver to Examiner MICHAEL PHAM

Facsimile Transmission

Date: March 9, 2017

RECIPIENT	COMPANY	PHONE NO.	FAX NO.
Examiner: Michael Pham	U.S. Patent and Trademark Office	571-272-3924	**571-273-3924**

FROM: Puya Partow-Navid, Esq.
PHONE: **310 201-1550**
RE: Agenda REPLY FAX NO.: 310 201-5219

File No: 79531-000022 **Number of Pages, Including Cover:** 9

- ☐ Hard copy to follow
- ☐ Per your request
- ☐ Please telephone me
- ☒ Hard copy will not follow
- ☐ Please review and revise if necessary

MESSAGE:

RE: **APPLICATION NO. 14/960,309**

Attached is the Agenda for the Examiner Interview.

Interview - March 17, 2017 - 12:00 p.m. (ET)

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15649067v.1

PATENT
Docket No.: 79531-000022

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Sharon Gill Chadha et al.	Customer No.: 98275
Application No.: 14/960,309	Art Unit: 2167
Filed: December 4, 2015	Confirmation No.: 1063
For: REAL-TIME AND ADAPTIVE DATA MINING	Examiner: MICHAEL PHAM

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT UNDER 37 C.F.R. 1.116

Dear Examiner,

The following is an agenda for the interview scheduled on March 17 at 12 PM (EST)

PAGE 2/9 * RCVD AT 3/9/2017 6:25:01 PM [Eastern Standard Time] * SVR:W-PTOFAX-002/43 * DNIS:2733924 * CSID:310 201 5219 * DURATION (mm-ss):02-25

IPR2025-00623
UIPATH EXHIBIT 1002

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A method of analyzing data, comprising:

generating, by a first user, a query based at least in part on a topic of interest;

executing the query on a plurality of data sources;

monitoring, based on a set schedule, at least one data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof;

analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;

establishing a communication channel, with a second user, based at least in part on the analysis of the extracted data; and

receiving feedback from the second user in response to a communication on the established communication channel.

2. (Previously Presented) The method of claim 1, further comprising:

analyzing the extracted data; and

receiving feedback from the user based at least in part on the established communication channel.

3. (Previously Presented) The method of claim 2, further comprising visualizing at least one of the extracted data, the analyzed data, or a combination thereof.

4. (Previously Presented) The method of claim 1, further comprising:

refining the search terms based at least in part on the executed query, and in which the monitoring is performed to monitor for matches to a refined query.

PAGE 3/9 * RCVD AT 3/9/2017 6:25:01 PM [Eastern Standard Time] * SVR:W-PTOFAX-002/43 * DNIS:2733924 * CSID:310 201 5219 * DURATION (mm-ss):02-25

IPR2025-00623
UIPATH EXHIBIT 1002

5. (Previously Presented) The method of claim 1, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that are not publically accessible.

6. (Previously Presented) The method of claim 1, in which the query is a natural language query, and

further comprising translating the query to a system understood language.

7. (Previously Presented) The method of claim 1, in which the plurality of data sources are pre-defined.

8. (Previously Presented) The method of claim 1, further comprising:

expanding search terms of the query; and

selecting the at least one data source from the plurality of data sources, the at least one data source being selected when results of the query are greater than or equal to accuracy thresholds.

9. (Previously Presented) The method of claim 8, in which expanding the query comprises expanding the search terms to include at least misspellings, synonyms, sub-topics, antonyms, or a combination thereof.

10. (Previously Presented) The method of claim 1, in which the monitoring comprises deploying extractors to each of specific data source, a number of extractors being dynamic based at least in part on a traffic volume of each specific data source.

11. (Previously Presented) An apparatus for analyzing data, the apparatus comprising:

a memory; and

at least one processor coupled to the memory, the at least one processor being configured:

to generate, by a first user, a query based at least in part on a topic of interest;

to execute the query on a plurality of data sources;

PAGE 4/9 * RCVD AT 3/9/2017 6:25:01 PM [Eastern Standard Time] * SVR:W-PTOFAX-002/43 * DNIS:2733924 * CSID:310 201 5219 * DURATION (mm-ss):02-25

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to monitor, based on a set schedule, at least one data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof;

to analyze the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;

to establish a communication channel, with a second user, based at least in part on the analysis of the extracted data; and

to receive feedback from the second user in response to a communication on the established communication channel.

12. (Previously Presented) The apparatus of claim 11, in which the at least one processor is further configured:

to analyze the extracted data; and

to receive feedback from the user based at least in part on the established communication channel.

13. (Previously Presented) The apparatus of claim 12, in which the at least one processor is further configured to visualize at least one of the extracted data, the analyzed data, or a combination thereof.

14. (Previously Presented) The apparatus of claim 11, in which the at least one processor is further configured:

to refine the search terms based at least in part on the executed query,

to monitor for matches to a refined query.

15. (Previously Presented)) The apparatus of claim 11, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that are not publically accessible.

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UIPATH EXHIBIT 1002

16. (Previously Presented) A non-transitory computer-readable medium having program code recorded thereon for analyzing data, the program code being executed by a processor and comprising:

program code to generate, by a first user, a query based at least in part on a topic of interest;

program code to execute the query on a plurality of data sources;

program code to monitor, based on a set schedule, at least one data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof;

program code to analyze the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;

program code to establish a communication channel, with a second user, based at least in part on the analysis of the extracted data; and

program code to receive feedback from the second user in response to a communication on the established communication channel.

17. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the program code further comprises:

program code to analyze the extracted data; and

program code to receive feedback from the user based at least in part on the established communication channel.

18. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the program code further comprises:

program code to refine the search terms based at least in part on the executed query,

program code to monitor for matches to a refined query.

19. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that are not publically accessible.

PAGE 6/9 * RCVD AT 3/9/2017 6:25:01 PM [Eastern Standard Time] * SVR:W-PTOFAX-002/43 * DNIS:2733924 * CSID:310 201 5219 * DURATION (mm-ss):02-25

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20. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the plurality of data sources are pre-defined.

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IPR2025-00623
UIPATH EXHIBIT 1002

REMARKS

Obviousness-Type Double Patenting Rejection

Claims 1-20 stand provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7, 9-15, and 19-21 of U.S. Patent No. 9,229,977 ("Chadha") in view of U.S. Patent No. 8,260,774 ("Aggarwal").

Claim 1 recites, in part, "establishing a communication channel, with a second user, based at least in part on the analysis of the extracted data" and "receiving feedback from the second user in response to a communication on the established communication channel."

The Office Action alleges that FIGURE 4 steps 410 and 420 of Aggarwal disclose the cited elements of claim 1. Applicants respectfully disagree.

As discussed in col. 11 lines 25-29 of Aggarwal, the PSE identifies first and second feedback created by at least one different source. Col. 2, lines 64-67 of Aggarwal disclose "PSE analyzes feedback (e.g. reviews, ratings, comments, user-created online content) the first user has previously created for various websites and utilizes the feedback in identifying the relevance each object has to the first user."

Thus, the feedback of FIGURE 4 is reviews, ratings, comments, user-created online content. As an example, a user may leave a review on online content, step 420 of Aggarwal identifies these reviews. Identifying feedback left on online content is not the same as establishing a communication channel with a user. Applicants believe Aggarwal does not disclose, at least, "establishing a communication channel, with a second user, based at least in part on the analysis of the extracted data" and "receiving feedback from the second user in response to a communication on the established communication channel."

Applicants are open to amending the claims. Still, applicants would like to discuss the rejections to have a better understanding of the Examiner's position prior to proposing claim amendments.

PAGE 8/9 * RCVD AT 3/9/2017 6:25:01 PM [Eastern Standard Time] * SVR:W-PTOFAX-002/43 * DNIS:2733924 * CSID:310 201 5219 * DURATION (mm-ss):02-25

IPR2025-00623
UIPATH EXHIBIT 1002

CONCLUSION

The absence of a reply to a specific rejection, issue, or comment does not signify agreement with or concession of that rejection, issue, or comment. In addition, because the arguments above may not be exhaustive, there may be other reasons for patentability of any or all claims that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper, and the amendment or cancellation of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment or cancellation.

In light of the amendments and remarks, applicants submit that the claims are in condition for allowance and respectfully request a notice to this effect. Should the Examiner have any questions, please call the undersigned at the phone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. § 1.136 is submitted. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 19-1351 and please credit any excess fees to such deposit account.

Dated: _____

Respectfully submitted,

By: _____
Puya Partow-Navid, Reg. No. 59,657
Attorney for Applicants

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2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3021
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PAGE 9/9 * RCVD AT 3/9/2017 6:25:01 PM [Eastern Standard Time] * SVR:W-PTOFAX-002/43 * DNIS:2733924 * CSID:310 201 5219 * DURATION (mm-ss):02-25

IPR2025-00623
UIPATH EXHIBIT 1002

UNITED STATES PATENT AND TRADEMARK OFFICE

USPTO Automated Interview Request (AIR)

Mar 8 2017

This paper requesting to schedule and/or conduct an interview is appropriate because:

This submission is requested to be accepted as an authorization for this interview to communicate via the internet. Recognizing that Internet communications are not secure, I hereby authorize the USPTO to communicate with the undersigned concerning scheduling of the interview via video conference, instant messaging, or electronic mail, and to conduct the interview in accordance with office practice including video conferencing.

Name(s):
Puya Partow-Navid

S-signature:
/Puya Partownavid/

Registration Number:
59657

U.S. Application Number:
14960309

Confirmation Number:
1063

E-mail Address:
ppartownavid@seyfarth.com

Phone Number:
3102011550

Proposed Time of Interview:
3-17-2017 3:00 PM ET

Prefered Interview Type:
Telephonic

I am the applicant or applicant's representative for this application.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/960,309	12/04/2015	Sharon Gill CHADHA	79531-000022	1063

98275 7590 02/09/2017

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EXAMINER	
PHAM, MICHAEL	

ART UNIT	PAPER NUMBER
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NOTIFICATION DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

laxipdocket@seyfarth.com

Office Action Summary	Application No. 14/960,309	Applicant(s) CHADHA ET AL.	
	Examiner MICHAEL PHAM	Art Unit 2167	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *10/31/16*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *12/4/15* is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Claim Status

1. Claims 1-20 are pending and have been examined.

Claim Objections

2. Prior objections directed towards claims 5 and 19 are withdrawn.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321I or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting

provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) – 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

4. Claims 1-20 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-7, 9-15, and 19-21 of U.S. Patent No. U.S. Patent No. 9,229,977 by Chadha et. al. (hereafter Chadha). Although the claims at issue are not identical, they are not patentably distinct from each other because the claims are anticipated by U.S. Patent No. 9,229,977 by Chadha et. al. (hereafter Chadha) in view of U.S. Patent 8260774 by Anshu Aggarwal (hereafter Aggarwal).

Regarding claim 1, the limitations of claim 1 are essentially anticipated by Chadha col. 20 lines 12-28. Chadha does not explicitly disclose "analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or combination thereof; establishing a communication channel, with a second user, based at least in part on the analysis of the extracted data; and receiving feedback from the second user in response to a communication on the established communication channel" On the other hand, Aggarwal discloses "analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or combination thereof;"[analyzing (identify) the extracted data (first object) to determine at least one of a sentiment (personal feedback), an index (first/second), a pattern (similarity), or combination thereof (feedback, first/second object, and/or similarity)] "establishing a communication channel, with a second user, based at least in part on the analysis of the extracted data; and"[establishing a communication channel (figure 4 420), with a second user (at least one different source), based at least in part on the analysis of the extracted data (figure 4 410)] "receiving feedback from the second user in response to a communication on the established communication channel"[receiving feedback from the second user (first feedback..created by at least one different source) in response to a communication on the established communication channel (figure 4 420)].

Chadha and Aggarwal are directed to providing database information. They are within the same field of endeavor. Aggarwal provides for further database search and user feedback for better search results. It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have provided the above limitations to the disclosure of Chadha for the purpose of providing a second user feedback on data from search in order to provide for better search results sorting/filtering, and further to discover more related new data.

Claim 2 of the application is anticipated by claim 2 of Chadha.

Claim 3 of the application is anticipated by claim 3 of Chadha.

Claim 4 of the application is anticipated by claim 5 of Chadha.

Claim 5 of the application is anticipated by claim 6 of Chadha.

Claim 6 of the application is anticipated by claim 7 of Chadha.

Claim 8 of the application is anticipated by the limitations of claim 1 in col. 20 lines 15-20 of Chadha.

Claim 9 of the application is anticipated by claim 4 of Chadha.

Claim 10 of the application is anticipated by claim 9 of Chadha.

Regarding claim 11, the limitations of claim 11 are essentially anticipated by Chadha claim 10. Chadha does not explicitly disclose "to analyze the extracted data to determine at least one of a sentiment, an index, a pattern, or combination thereof; to establish a communication channel, with a second user, based at least in part on the analysis of the extracted data; and to receive feedback from the second user in response to a communication on the established communication channel" On the other hand, Aggarwal discloses "to analyze the extracted data to determine at least one of a sentiment, an index, a pattern, or combination thereof;"[to analyze (identify) the extracted data (first object) to determine at least one of a sentiment (personal feedback), an index (first/second), a pattern (similarity), or combination thereof (feedback, first/second object, and/or similarity)] "to establish a communication channel, with a second user, based at least in part on the analysis of the extracted data; and"[to establish a communication channel (figure 4 420), with a second user (at least one different source), based at least in part on the analysis of the extracted data (figure 4 410)] "to receive feedback from the

second user in response to a communication on the established communication channel"[to receive feedback from the second user (first feedback..created by at least one different source) in response to a communication on the established communication channel (figure 4 420)].

Chadha and Aggarwal are directed to providing database information. They are within the same field of endeavor. Aggarwal provides for further database search and user feedback for better search results. It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have provided the above limitations to the disclosure of Chadha for the purpose of providing a second user feedback on data from search in order to provide for better search results sorting/filtering, and further to discover more related new data.

Claim 12 of the application is anticipated by claim 11 of Chadha.

Claim 13 of the application is anticipated by claim 12 of Chadha.

Claim 14 of the application is anticipated by claim 14 of Chadha.

Claim 15 of the application is anticipated by claim 15 of Chadha.

Regarding claim 16, the limitations of claim 16 are essentially anticipated by Chadha claim 19. Chadha does not explicitly disclose "program code to analyze the extracted data to determine at least one of a sentiment, an index, a pattern, or combination thereof; program code to establish a communication channel, with a second user, based at least in part on the analysis of the extracted data; and program code to receive feedback from the second user in response to a communication on the established communication channel" On the other hand, Aggarwal discloses "program code to analyze the extracted data to determine at least one of a sentiment, an index, a pattern, or combination thereof;"[program code to analyze (identify) the extracted data (first object) to determine at least one of a sentiment (personal feedback), an index (first/second),

a pattern (similarity), or combination thereof (feedback, first/second object, and/or similarity)] "program code to establish a communication channel, with a second user, based at least in part on the analysis of the extracted data; and"[program code to establish a communication channel (figure 4 420), with a second user (at least one different source), based at least in part on the analysis of the extracted data (figure 4 410)] "program code to receive feedback from the second user in response to a communication on the established communication channel"[program code to receive feedback from the second user (first feedback..created by at least one different source) in response to a communication on the established communication channel (figure 4 420)].

Chadha and Aggarwal are directed to providing database information. They are within the same field of endeavor. Aggarwal provides for further database search and user feedback for better search results. It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have provided the above limitations to the disclosure of Chadha for the purpose of providing a second user feedback on data from search in order to provide for better search results sorting/filtering, and further to discover more related new data.

Claim 17 of the application is anticipated by claim 20 of Chadha.

Claim 18 of the application is anticipated by claim 21 of Chadha.

Claim 19 of the application is anticipated by claim 6 of Chadha except that it recites a medium instead of the method.

Claim 20 of the application is anticipated by claim 7 of Chadha except that it recites a medium instead of the method.

Claim Rejections – 35 USC § 103

5. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 1-20 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6260041 by Gonzalez et. al. (hereafter Gonzalez) further in view of U.S. Patent 8260774 by Anshu Aggarwal (hereafter Aggarwal**).**

Claim 1 :

Gonzalez discloses:

"generating, by a first user, a query based at least in part on a topic of interest;"[generating, by a first user (col. 2 line 47, user), a query (col. 2 lines 45-59, search terms) based at least in part on a topic of interest (col. 2 lines 45-59, concepts)]

"executing the query on a plurality of data sources;"[col. 4 lines 21-25, information found in step s33 to be related or otherwise pertinent to one or more of the desired search terms listed in client file 14 is culled out or returned from the resource location using any number of known techniques. Accordingly, executing the query (col. 4 lines 21-25, search terms) on a plurality of data resources (col. 4 lines 21-25 resource location)]

"monitoring, based on a set schedule, at least one data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof;"[monitoring (first system monitor

network), based on a set schedule (col. 1 line 51, periodic), at least one specific data source (col. 1 line 51, periodic access of each resource location listed) selected from the plurality of data sources (col. 2 line 60-61, listing of resources that are to be monitored) for matches to the query from the plurality of data sources to extract data from the at least one data source when newly added data matches the query(col. 2 lines 50-54, determine whether any information on a particular relocation has been added that is pertinent to the desired search terms)]

Gonzalez does not explicitly disclose

"analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or combination thereof;

establishing a communication channel, with a second user, based at least in part on the analysis of the extracted data; and

receiving feedback from the second user in response to a communication on the established communication channel"

On the other hand, Aggarwal discloses

"analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or combination thereof;"[analyzing (identify) the extracted data (first object) to determine at least one of a sentiment (personal feedback), an index (first/second), a pattern (similarity), or combination thereof (feedback, first/second object, and/or similarity)]

"establishing a communication channel, with a second user, based at least in part on the analysis of the extracted data; and"[establishing a communication channel (figure 4 420), with a second user (at least one different source), based at least in part on the analysis of the extracted data (figure 4 410)]

"receiving feedback from the second user in response to a communication on the established communication channel"[receiving feedback from the second user (first feedback..created by at least one different source) in response to a communication on the established communication channel (figure 4 420)].

Gonzalez and Aggarwal are directed to providing database information from various forms of communications media. Gonzalez provides for information from communication resources, col. 2 lines 66-67. Aggarwal provides for further database search and user feedback for better search results. It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have provided the above limitations to the disclosure of Gonzalez for the purpose of providing a second user feedback on data from search in order to provide for better search results sorting/filtering, and further to discover more related new data.

Claim 2 :

The combination of Gonzalez and Aggarwal disclose in Gonzalez:

"analyzing the extracted data; and" [col. 5 lines 24-25. Accordingly analyzing (reviewing) the extracted data (the information in the alert data)]

"receiving feedback from the user based at least in part on the established communication channel." [receiving feedback from the user (col. 5 lines 24-26, user reviewing the information in the alert message may be presented with a series of input buttons in which to categorize information.) based at least in part on the established communication channel(col. 1 line 56-85, alert message)]

Claim 3 :

The combination of Gonzalez and Aggarwal disclose in Gonzalez: "The method of claim 2, further comprising visualizing at least one of the extracted data, the analyzed data, or a combination thereof." [visualizing (col. 4 lines 52-55, composed message may provide a copy) at least one of the extracted data (col. 4 lines 52-55, information found to be new)]

Claim 4 :

The combination of Gonzalez and Aggarwal disclose in Gonzalez: "refining the search terms based at least in part on the executed query, and in which the monitoring is performed to monitor for matches to a refined query." [refining the search terms (col. 2 line 53, additional search terms) based at least in part on the executed query (col. 4 lines 21-25, search terms), and in which the monitoring is performed to monitor (col. 2 line 56, monitor) for matches to a refined query (col. 2 lines 56-58, information pertinent to the listed search terms)]

Claim 5 :

The combination of Gonzalez and Aggarwal disclose in Gonzalez: "The method of claim 1, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that at not publically accessible."[in which the plurality of data sources include open-source data sources that are publically available (col. 2 lines 64-66, websites, individual web pages, message boards, locations of discussions groups) and closed-source data sources that at not publically accessible (col. 2 line 67, email messages)]

Claim 6 :

The combination of Gonzalez and Aggarwal disclose in Gonzalez: "The method of claim 1, in which the query is a natural language query, and further comprising translating the query to a system understood language." [in which the query is a natural language query (col. 2 lines 51-53,

user could enter…as desired search terms), and further comprising translating the query to a system understood language (figure 4; col. 3 lines 50-53, identify the different search terms or concepts)]

Claim 7 :

The combination of Gonzalez and Aggarwal disclose in Gonzalez: "The method of claim 1, in which the plurality of data sources are pre-defined."[col. 2 lines 60-61, client files further include a listing of resources that are to be monitored. Accordingly, in which the plurality of data sources (resources) are pre-defined (include a listing of resources)]

Claim 8 :

The combination of Gonzalez and Aggarwal disclose in Gonzalez: "The method of claim 1, further comprising: expanding search terms of the query; and" [col. 2 line 53, desired search terms, together with any additional search terms]. The combination of Gonzalez and Aggarwal further disclose in Aggarwal "selecting the at least one data source from the plurality of data sources, the at least one data source being selected when results of the query are greater than or equal to an accuracy thresholds."[selecting the at least one data source (figure 5 540, second object) from the plurality of data sources (figure 5 510, 520, first/second objects), the at least one data source being selected (figure 5 540, second object) when results of the query (figure 5 540, relevance to the source of the search query) are greater than or equal to an accuracy thresholds (figure 5 540, second rating is higher than first rating)]

Claim 9 :

The combination of Gonzalez and Aggarwal disclose in Gonzalez "The method of claim 8, in which expanding the query comprises expanding the search terms to include at least misspellings, synonyms, sub-topics, antonyms, or a combination thereof. "[in which expanding the query comprises expanding the search terms (col. 2 line 53, additional search terms) to include at least misspellings, synonyms, sub-topics (col. 2 line 54, stock symbol; stock symbol is subtopic of company name)]

Claim 10 :

The combination of Gonzalez and Aggarwal disclose in Gonzalez "The method of claim 1, in which the monitoring comprises deploying extractors to each of specific data source, a number of extractors being dynamic based at least in part on a traffic volume of each specific data source."[in which the monitoring (figure 1) comprises deploying extractors to each of specific data source (col. 3 line 8-11, in accessing each resource, one or more bots are used), a number of extractors (col. 3 line 11, bots) being dynamic (col. 3 lines14-16, assigned to perform a single script…could permit multiple scripts) based at least in part on a traffic volume (col. 3 lines14-16, single script/multiple script) of each specific data source (col. 3 line 8-11, each resource)]

Claims 11-15 :

Claims 11-15 recite similar limitations to those of claims 1-5 above respectively, except claims 11-15 are directed to an apparatus instead of a system. Claims 11-15 are rejected under similar rationale as that of claims 1-5.

Claims 16-20 :

Claims 16-20 recite similar limitations to those of claims 1-2, 4-5, and 7 respectively, except they are directed to a non-transitory computer –readable medium instead of a method. Claims

16-20 are rejected under similar rationale as that of claims 1-2, 4-5, and 7

Response to Arguments

7. Applicant's arguments with respect to claims 1-20 have been considered but are moot because the arguments do not apply to the references being used in the current rejection.

A. Applicant's primarily assert "analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or combination thereof; establishing a communication channel, with a second user, based at least in part on the analysis of the extracted data; and receiving feedback from the second user in response to a communication on the established communication channel" are not disclosed.

In response, this is now moot.

Conclusion

8. The prior art made of record listed on pto-892 and not relied, if any, upon is considered pertinent to applicant's disclosure.

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL PHAM whose telephone number is (571)272-3924. The examiner can normally be reached Monday-Friday 11am-7pm eastern time zone.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on 571-272-3645. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. P./
Examiner, Art Unit 2167

/ROBERT BEAUSOLIEL JR/
Supervisory Patent Examiner, Art Unit 2167

Notice of References Cited	Application/Control No. 14/960,309	Applicant(s)/Patent Under Reexamination CHADHA ET AL.	
	Examiner MICHAEL PHAM	Art Unit 2167	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-8,260,774 B1	09-2012	Aggarwal; Anshu	G06F17/30864	707/723
*	B	US-2002/0143932 A1	10-2002	Quintero, Andrew H.	G06F17/3089	709/224
*	C	US-2010/0114954 A1	05-2010	SAREEN; BHRIGHU	G06F17/30864	707/776
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Manage | Discover | Map

STIC

New Query

Main Concept Text
sentiment of search result second user feedback

Filters
(1 applied)

Filter Discover

Save Query

Export Results

Quick Downloads

Views: Sort: Relevance Relevance Filter: None 0 Selected Documents Actions

1 - 50 5,888,592 results 236,050 Results VIEW

COLLAPSE MENU

1. **Personalization search engine**

Methods and apparatus provide for a personalization search engine that receives a search query from a first user and identifies multiple portions of indexed content---where each respective portion of indexed content has metadata that matches at least one characteristic of the search query. The...

CURRENT ASSIGNEES: PINK FLAMINGO SERIES 31 OF ALLIED SECURITY TRUST I
US8626753 | US PATENTS | 07-JAN-2014

2. **Personalization search engine**

Methods and apparatus provide for a personalization search engine that receives a search query from a first user and identifies multiple portions of indexed content---where each respective portion of indexed content has metadata that matches at least one characteristic of the search query. The...

CURRENT ASSIGNEES: PINK FLAMINGO SERIES 31 OF ALLIED SECURITY TRUST I
US8260774 | US PATENTS | 04-SEP-2012

3. **Watching a user'S online world**

The present invention provides methods and systems for use in assessing sentiment of users associated with one or more Web-based activities or communications of a user, which can include messaging associated with one or more social networking applications. Furthermore, information or services are...

CURRENT ASSIGNEES: YAHOO INC
US20110264531 | US APPLICATIONS | 27-OCT-2011

4. **Information access with usage-driven metadata feedback**

In a method for displaying and capturing metadata of documents within result presentations in information access or search systems, a metadata server is used for storing a metadata associated with any searchable document and the end users are given the opportunity to view and edit metadata...

CURRENT ASSIGNEES: MICROSOFT INTL HLDG BV [+1]
US8135669 | US PATENTS | 13-MAR-2012

5. **System and Method for Facilitating Management of Structured Sentiment Content**

The present invention provides a structured sentiment expression and management system and method. The present invention can receive sentiment content from at least two contributing users, wherein the received content is structured according to a specific human emotion, gesture or feeling and a...

CURRENT ASSIGNEES: JABFAB INC
US20130018957 | US APPLICATIONS | 17-JAN-2013

6. **Method and system relating to sentiment analysis of electronic content**

Users receive information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. Prior art tools automatically processing content to assign sentiment to the content are ineffective as essential aspects such as context are not considered. Embodiments of the...

CURRENT ASSIGNEES: WHYZ TECH LTD
US20130311485 | US APPLICATIONS | 21-NOV-2013

7. **Method and system relating to sentiment analysis of electronic content**

Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further, a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...

CURRENT ASSIGNEES: WHYZ TECH LTD
WO2013170344A1 | WIPO APPLICATIONS | 21-NOV-2013

Sample TOP 1000 RESULTS

Relevance VIEW

0 Results

48 Results

3457 Results

0 Results

0 Results

Publication Date VIEW

2001 2017

Cur Assignee by Relevance VIEW

PINK FLAMINGO SERIES 31... (2)

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New Query
Save Query
Export Results
Quick Downloads
COLLAPSE MENU

8. System and Method for Social Influence Credentialing within a Management Ecosystem Community Map

The present invention provides a structured sentiment expression and management system and method. The present invention can receive sentiment content from at least two contributing users, wherein the received content is structured according to a specific human emotion, gesture or feeling and a...

CURRENT ASSIGNEES: JABFAB INC
US20130018838 | US APPLICATIONS | 17-JAN-2013

9. Method and system relating to sentiment analysis of electronic content

Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further, a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...

CURRENT ASSIGNEES: WHYZ TECH LTD
CA2865186C | CANADIAN PATENTS | 20-OCT-2015

10. Method and system relating to sentiment analysis of electronic content

Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further, a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...

CURRENT ASSIGNEES: WHYZ TECH LTD
CA2865186A1 | CANADIAN APPLICATIONS | 21-NOV-2013

11. System and Method for Facilitating the Provision of Situation-Based Value, Service or Response

The present invention provides a structured sentiment expression and management system and method. The present invention can receive sentiment content from at least two contributing users, wherein the received content is structured according to a specific human emotion, gesture or feeling and a...

CURRENT ASSIGNEES: JABFAB INC
US20130018698 | US APPLICATIONS | 17-JAN-2013

12. System and Method for Tasking Based Upon Social Influence

The present invention provides a structured sentiment expression and management system and method. The present invention can receive sentiment content from at least two contributing users, wherein the received content is structured according to a specific human emotion, gesture or feeling and a...

CURRENT ASSIGNEES: JABFAB INC
US20130018685 | US APPLICATIONS | 17-JAN-2013

13. System and method for providing argument maps based on activity in a network environment

A method is provided in one example and includes receiving network traffic associated with a first user and a second user; evaluating keywords in the network traffic in order to identify a topic of discussion involving the first and the second users; determining a first sentiment associated with a...

CURRENT ASSIGNEES: CISCO TECH INC
US20120158989 | US APPLICATIONS | 21-JUN-2012

14. Searching a user'S online world

The present invention provides methods and systems for use in searching a user's online world, across independently provided applications including Web-based and desktop applications, which can include Web sites. Techniques are provided in which information is collected and indexed relating to...

CURRENT ASSIGNEES: YAHOO INC
WO2011139552A2 | WIPO APPLICATIONS | 10-NOV-2011

15. System and method for topic based sentiment search and sharing across a network

A computer implemented method of collecting, exchanging and displaying both real-time and historical sentiments on a topic comprises establishing a topic upon which a sentiment can be rendered; detecting and storing a sentiment on said topic and causing said sentiment to be displayed for others to...

CURRENT ASSIGNEES: VERTICAL AXIS INC
EP2487636A1 | EUROPEAN APPLICATIONS | 15-AUG-2012

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16. **Searching a user's online world**

The present invention provides methods and systems for use in searching a user's online world, across independently provided applications including Web-based and desktop applications, which can include Web sites. Techniques are provided in which information is collected and indexed relating to...

CURRENT ASSIGNEES: YAHOO INC
US20110264525 | US APPLICATIONS | 27-OCT-2011

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A computer implemented method of collecting, exchanging and displaying both real-time and historical sentiments on a topic comprises establishing a topic upon which a sentiment can be rendered, detecting and storing a sentiment on said topic and causing said sentiment to be displayed for others to...

CURRENT ASSIGNEES: VERTICAL AXIS INC
CA2767691A1 | CANADIAN APPLICATIONS | 09-AUG-2012

18. **Get or provide method and apparatus of the search results using a user-based biases**

CURRENT ASSIGNEES: クゥアルコム・インコーポレイテッド,QUALCOMM INCORPORATED
JP5882157B2 | JAPANESE PATENTS | 09-MAR-2016

19. **Intelligent product feedback analytics tool**

A method for improving the usability of product feedback data can begin with the receipt of product feedback search parameters by an intelligent product feedback analytics tool. The product feedback search parameters can represent a product or a group of products. Product feedback search results...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US8965897 | US PATENTS | 24-FEB-2015

20. **Method and system relating to re-labelling multi-document clusters**

Individuals receive overwhelming barrage of information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. However, prior art tools for automatically processing content, such as for example returning search results from an Internet or database search...

CURRENT ASSIGNEES: WHYZ TECH LTD
WO2013170345A1 | WIPO APPLICATIONS | 21-NOV-2013

21. **Method and apparatus of obtaining or providing search results using user-based biases**

An object of the present invention is based on the friends bias associated with the user, to acquire or provide search results. A is received from the access terminal a raised query by a user, performing a search based on the query. Also, determine the friends bias associated with the user, applying...

CURRENT ASSIGNEES: QUALCOMM INC
JP2015122090A | JAPANESE APPLICATIONS | 02-JUL-2015

22. **Centralized web-based software solution for search engine optimization**

A system and method for modifying a parameter of a website in order to optimize an organic listing of the website at one or more search engines is described. Several embodiments include methods and systems for generating scored representations based upon different portions of data associated with a...

CURRENT ASSIGNEES: RIOSOFT HLDG INC
US8972379 | US PATENTS | 03-MAR-2015

23. **Apparatus and method for providing or obtaining of search results using the bias of the user base**

Method, an apparatus, a processor, and a computer program product is provided in order to provide or obtain a search result. Method of providing search results includes conducting a search based on the query and that receives a query raised by the user. To determine a friends bias associated with...

CURRENT ASSIGNEES: クゥアルコム・インコーポレイテッド,QUALCOMM INCORPORATED
JP2010503081A | JAPANESE APPLICATIONS | 28-JAN-2010

24. **System and method for providing argument maps based on activity in a network environment**

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A method is provided in the example and includes receiving network traffic associated with a first user and a second user, evaluating keywords in the network traffic in order to identify a topic of discussion involving the first and the second users; determining a first sentiment associated with a...

CURRENT ASSIGNEES: CISCO TECH INC
US8667169 | US PATENTS | 04-MAR-2014

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Individuals receive overwhelming barrage of information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. However, prior art tools for automatically processing content, such as for example returning search results from an Internet or database search...

CURRENT ASSIGNEES: WHYZ TECH LTD
US20130311462 | US APPLICATIONS | 21-NOV-2013

26. **Method and apparatus of obtaining or providing search results using user-based biases**

To provide objective search results based on the [task] bias. Method, an apparatus, a processor, and a computer program product is provided in order to provide or obtain a solution [means] the search results. Method of providing search results includes conducting a search based on the query and that...

CURRENT ASSIGNEES: QUALCOMM INC
JP2013008371A | JAPANESE APPLICATIONS | 10-JAN-2013

27. **Nlp-based sentiment analysis**

Methods, systems, and techniques for providing sentiment analysis and for presenting the results of such analysis Example embodiments provide a Sentiment Analysis System ("SAS"), which provides tools to enable authors, programmers, users, developers, and the like to incorporate sentiment analysis...

CURRENT ASSIGNEES: VCVC III LLC
US20120041937 | US APPLICATIONS | 16-FEB-2012

28. **Realtime popularity prediction for events and queries**

A system, media, and method for realtime popularity prediction for event and queries are provided. The popularity prediction is made by a prediction engine that is coupled to a search engine, a crawler, and a sentiment component. The prediction engine determines a change in popularity for an event...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20100114854 | US APPLICATIONS | 06-MAY-2010

29. **Centralized web-based software solution for search engine optimization**

A system and method for modifying a parameter of a website in order to optimize an organic listing of the website at one or more search engines is described. Several embodiments include methods and systems for generating scored representations based upon different portions of data associated with a...

CURRENT ASSIGNEES: BIOSOFT HLDG INC
US8943039 | US PATENTS | 27-JAN-2015

30. **Content inversion for user searches and product recommendations systems and methods**

There is provided systems and method for content inversion for use in user searches and product recommendations. The methods include receiving a first content, wherein the first content includes a first sentence having at least one first sentiment expression, creating a syntactic parse tree of the...

CURRENT ASSIGNEES: PAYPAL INC
US9336297 | US PATENTS | 10-MAY-2016

31. **Social media contributor weight**

A system and method is disclosed for measuring contributor weight or influence in social media. Content posted by a user on one or more social media platforms is identified. The identifying the content posted by the user includes searching the one or more social media platforms for content posted by...

CURRENT ASSIGNEES: ADOBE SYS INC
US8655938 | US PATENTS | 18-FEB-2014

32. **Content inversion for user searches and product recommendations systems and methods**

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There is provided systems and method for content inversion for use in user searches and product recommendations. The methods include receiving a first content, wherein the first content includes a first sentence having at least one first sentiment expression, creating a syntactic parse tree of the...

CURRENT ASSIGNEES: PAYPAL INC
US20140046288 | US APPLICATIONS | 06-FEB-2014

33. **Intelligent product feedback analytics tool**

A method for improving the usability of product feedback data can begin with the receipt of product feedback search parameters by an intelligent product feedback analytics tool. The product feedback search parameters can represent a product or a group of products. Product feedback search results...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US20130226925 | US APPLICATIONS | 29-AUG-2013

34. **Content inversion for user searches and product recommendations systems and methods**

There is provided systems and method for content inversion for use in user searches and product recommendations. The methods include receiving a first content, wherein the first content includes a first sentence having at least one first sentiment expression, creating a syntactic parse tree of the...

CURRENT ASSIGNEES: PAYPAL INC (+1)
US20160253333 | US APPLICATIONS | 01-SEP-2016

35. **Social media contributor weight**

A system and method is disclosed for measuring contributor weight or influence in social media. Content posted by a user on one or more social media platforms is identified. The identifying the content posted by the user includes searching the one or more social media platforms for content posted by...

CURRENT ASSIGNEES: ADOBE SYS INC
US20140164398 | US APPLICATIONS | 12-JUN-2014

36. **Method and system relating to re-labelling multi-document clusters**

Individuals receive overwhelming barrage of information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. However, prior art tools for automatically processing content, such as for example returning search results from an Internet or database search...

CURRENT ASSIGNEES: WHYZ TECH LTD
CA2865184A1 | CANADIAN APPLICATIONS | 21-NOV-2013

37. **Social media measurement**

A system and method is disclosed for measuring social media. A social media measurement tool is configured to receive or otherwise determine a keyword for evaluation. The tool identifies directly relevant content on one or more social media platforms, where the directly relevant content includes the...

CURRENT ASSIGNEES: ADOBE SYS INC
US8676875 | US PATENTS | 18-MAR-2014

38. **Information access with usage-driven metadata feedback**

CURRENT ASSIGNEES: FAST SEARCH & TRANSFER ASA
WO2007043893A2 | WIPO APPLICATIONS | 19-APR-2007

39. **Computer system and method for analyzing data sets and providing personalized recommendations**

Embodiments of the invention relate to a computer-implemented method and system for providing personalized recommendations for a target user based at least on stored data about the target user. The method comprises obtaining a plurality of feedback data from a plurality of users, wherein the...

CURRENT ASSIGNEES: OPENTABLE INC
US9396492 | US PATENTS | 19-JUL-2016

40. **Real-time Monitoring of Public Sentiment**

The subject disclosure is directed towards a real-time or near real-time sentiment monitoring service. A set of rules such as keywords and data sources to crawl is provided to the monitoring service, which crawls the sources to obtain sentiment-related data for an entity, such as a corporation or...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC

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US20120323827 | US APPLICATIONS | 20-DEC-2012

41. **Computer system and method for analyzing data sets and providing personalized recommendations**

Embodiments of the invention relate to a computer-implemented method and system for providing personalized recommendations for a target user based at least on stored data about the target user. The method comprises obtaining a plurality of feedback data from a plurality of users, wherein the...

CURRENT ASSIGNEES: OPENTABLE INC
US20120095863 | US APPLICATIONS | 19-APR-2012

42. **Leveraging affiliations to provide search results**

Information from social networks may be used to identify a user's interests and predilections, and the information may be used to affect search results. In one example, social networks have pages that correspond to real entities, such as manufacturers and merchants. Entity pages in social networks...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20130173572 | US APPLICATIONS | 04-JUL-2013

43. **Information Access With Usage-Driven Metadata Feedback**

In a method for displaying and capturing metadata of documents within result presentations in information access or search systems, a metadata server is used for storing a metadata associated with any searchable document and the end users are given the opportunity to view and edit metadata...

CURRENT ASSIGNEES: MICROSOFT INTL HLDG BV
US20080097985 | US APPLICATIONS | 24-APR-2008

44. **A computer system and method for analyzing data sets and providing personalized recommendations**

Method and system for providing personalized recommendations for a target user based at least on stored data about the target user. The method comprises obtaining a plurality of feedback data from a plurality of users, wherein the feedback data comprises an indication of a media object, a response...

CURRENT ASSIGNEES: NEXT COMPUTING INC
WO2012051583A1 | WIPO APPLICATIONS | 19-APR-2012

45. **Visualization of reputation ratings**

In one embodiment, a system and method is illustrated including receiving a feedback request identifying a particular user, retrieving a feedback entry in response to the feedback request, the feedback entry containing a first term, building a scoring model based, in part, upon a term frequency...

CURRENT ASSIGNEES: EBAY INC
US8977631 | US PATENTS | 10-MAR-2015

46. **Sentiment-based classification of media content**

A set of comments associated with an item of media content is identified. A set of sentiment scores associated with the set of comments is generated, wherein each sentiment score indicates a type of sentiment expressed in a comment. The sentiment profile is generated responsive at least in part to...

CURRENT ASSIGNEES: GOOGLE INC
US9129008 | US PATENTS | 08-SEP-2015

47. **Sentiment-based classification of media content**

A set of comments associated with an item of media content is identified. A set of sentiment scores associated with the set of comments is generated, wherein each sentiment score indicates a type of sentiment expressed in a comment. The sentiment profile is generated responsive at least in part to...

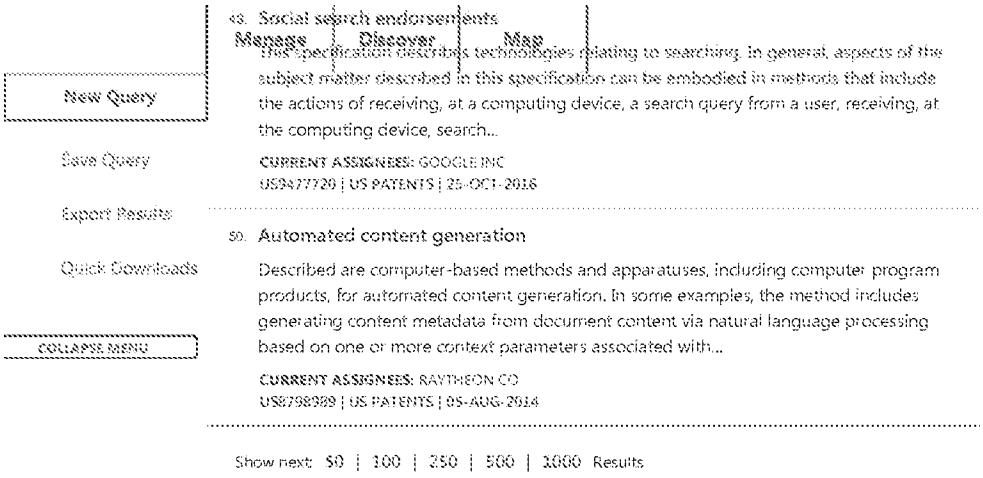
CURRENT ASSIGNEES: GOOGLE INC
US9495425 | US PATENTS | 15-NOV-2016

48. **Social search endorsements**

This specification describes technologies relating to searching. In general, aspects of the subject matter described in this specification can be embodied in methods that include the actions of receiving, at a computing device, a search query from a user, receiving, at the computing device, search...

CURRENT ASSIGNEES: GOOGLE INC
US9092529 | US PATENTS | 28-JUL-2015

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STIC

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Manage | Discover | Map

STIC

New Query

Main Concept Text
query monitor sentiment of search result second...

Filters
(1 applied)

Filter

Discover

Save Query

Export Results

Quick Downloads

Views: Sort: Relevance Relevance Filter: None 0 Selected Documents Actions

1 - 50 6,452,204 results

COLLAPSE MENU

1. Personalization search engine

Methods and apparatus provide for a personalization search engine that receives a search query from a first user and identifies multiple portions of indexed content---where each respective portion of indexed content has metadata that matches at least one characteristic of the search query. The...

CURRENT ASSIGNEES: PINK FLAMINGO SERIES 31 OF ALLIED SECURITY TRUST I
US8626753 | US PATENTS | 07-JAN-2014

2. Personalization search engine

Methods and apparatus provide for a personalization search engine that receives a search query from a first user and identifies multiple portions of indexed content---where each respective portion of indexed content has metadata that matches at least one characteristic of the search query. The...

CURRENT ASSIGNEES: PINK FLAMINGO SERIES 31 OF ALLIED SECURITY TRUST I
US8260774 | US PATENTS | 04-SEP-2012

3. Watching a user'S online world

The present invention provides methods and systems for use in assessing sentiment of users associated with one or more Web-based activities or communications of a user, which can include messaging associated with one or more social networking applications. Furthermore, information or services are...

CURRENT ASSIGNEES: YAHOO INC
US20110264531 | US APPLICATIONS | 27-OCT-2011

4. Realtime popularity prediction for events and queries

A system, media, and method for realtime popularity prediction for event and queries are provided. The popularity prediction is made by a prediction engine that is coupled to a search engine, a crawler, and a sentiment component. The prediction engine determines a change in popularity for an event...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20100114954 | US APPLICATIONS | 06-MAY-2010

5. Information access with usage-driven metadata feedback

In a method for displaying and capturing metadata of documents within result presentations in information access or search systems, a metadata server is used for storing a metadata associated with any searchable document and the end users are given the opportunity to view and edit metadata...

CURRENT ASSIGNEES: MICROSOFT INTL HLDG BV [+1]
US8135669 | US PATENTS | 13-MAR-2012

6. System and method for providing argument maps based on activity in a network environment

A method is provided in one example and includes receiving network traffic associated with a first user and a second user; evaluating keywords in the network traffic in order to identify a topic of discussion involving the first and the second users; determining a first sentiment associated with a...

CURRENT ASSIGNEES: CISCO TECH INC
US20120158989 | US APPLICATIONS | 21-JUN-2012

7. Searching a user'S online world

The present invention provides methods and systems for use in searching a user's online world, across independently provided applications including Web-based and desktop applications, which can include Web sites. Techniques are provided in which information is collected and indexed relating to...

CURRENT ASSIGNEES: YAHOO INC
WO2011139552A2 | WIPO APPLICATIONS | 10-NOV-2011

Sample TOP 1000 RESULTS

Relevance VIEW

0 Results

324 Results

1376 Results

0 Results

0 Results

Publication Date VIEW

2000 2017

Cur Assignee by Relevance VIEW

PINK FLAMINGO SERIES 31... (2)

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8. **Searching a user's online world**

The present invention provides methods and systems for use in searching a user's online world, across independently provided applications including Web-based and desktop applications, which can include Web sites. Techniques are provided in which information is collected and indexed relating to...

CURRENT ASSIGNEES: YAHOO INC
US20110264525 | US APPLICATIONS | 27-OCT-2011

9. **Get or provide method and apparatus of the search results using a user-based biases**

CURRENT ASSIGNEES: クゥアルコム・インコーポレイテッドQUALCOMM INCORPORATED
JP5882157B2 | JAPANESE PATENTS | 09-MAR-2016

10. **Method and apparatus of obtaining or providing search results using user-based biases**

An object of the present invention is based on the friends bias associated with the user, to acquire or provide search results. A is received from the access terminal a raised query by a user, performing a search based on the query. Also, determine the friends bias associated with the user, applying...

CURRENT ASSIGNEES: QUALCOMM INC
JP2015122090A | JAPANESE APPLICATIONS | 02-JUL-2015

11. **Apparatus and method for providing or obtaining of search results using the bias of the user base**

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CURRENT ASSIGNEES: クゥアルコム・インコーポレイテッドQUALCOMM INCORPORATED
JP2010503081A | JAPANESE APPLICATIONS | 28-JAN-2010

12. **Method and system relating to sentiment analysis of electronic content**

Users receive information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. Prior art tools automatically processing content to assign sentiment to the content are ineffective as essential aspects such as context are not considered. Embodiments of the...

CURRENT ASSIGNEES: WHYZ TECH LTD
US20130311485 | US APPLICATIONS | 21-NOV-2013

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To provide objective search results based on the [task] bias. Method, an apparatus, a processor, and a computer program product is provided in order to provide or obtain a solution [means] the search results. Method of providing search results includes conducting a search based on the query and that...

CURRENT ASSIGNEES: QUALCOMM INC
JP2013008371A | JAPANESE APPLICATIONS | 10-JAN-2013

14. **Method and system relating to sentiment analysis of electronic content**

Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further, a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...

CURRENT ASSIGNEES: WHYZ TECH LTD
WO2013170344A1 | WIPO APPLICATIONS | 21-NOV-2013

15. **Centralized web-based software solution for search engine optimization**

A system and method for modifying a parameter of a website in order to optimize an organic listing of the website at one or more search engines is described. Several embodiments include methods and systems for generating scored representations based upon different portions of data associated with a...

CURRENT ASSIGNEES: RIOSOFT HLDG INC
US8972379 | US PATENTS | 03-MAR-2015

16. **Method and system relating to sentiment analysis of electronic content**

Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further,

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a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...

CURRENT ASSIGNEES: WHYZ TECH LTD
CA2865186C | CANADIAN PATENTS | 20-OCT-2015

17. **Method and system relating to sentiment analysis of electronic content**

Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further, a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...

CURRENT ASSIGNEES: WHYZ TECH LTD
CA2865186A1 | CANADIAN APPLICATIONS | 21-NOV-2013

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CURRENT ASSIGNEES: VERTICAL AXIS INC
EP2487636A1 | EUROPEAN APPLICATIONS | 15-AUG-2012

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A system and method for modifying a parameter of a website in order to optimize an organic listing of the website at one or more search engines is described. Several embodiments include methods and systems for generating scored representations based upon different portions of data associated with a...

CURRENT ASSIGNEES: RIOSOFT HLDG INC
US8943039 | US PATENTS | 27-JAN-2015

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A computer implemented method of collecting, exchanging and displaying both real-time and historical sentiments on a topic comprises establishing a topic upon which a sentiment can be rendered, detecting and storing a sentiment on said topic and causing said sentiment to be displayed for others to...

CURRENT ASSIGNEES: VERTICAL AXIS INC
CA2767691A1 | CANADIAN APPLICATIONS | 09-AUG-2012

21. **System and method for providing argument maps based on activity in a network environment**

A method is provided in one example and includes receiving network traffic associated with a first user and a second user; evaluating keywords in the network traffic in order to identify a topic of discussion involving the first and the second users; determining a first sentiment associated with a...

CURRENT ASSIGNEES: CISCO TECH INC
US8667169 | US PATENTS | 04-MAR-2014

22. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US9229977 | US PATENTS | 05-JAN-2016

22. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20140040301 | US APPLICATIONS | 06-FEB-2014

24. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or

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more data sources, monitoring a specific data source selected from the one or more data

CURRENT ASSIGNEES: RULE 14
US20160085804 | US APPLICATIONS | 24-MAR-2016

25. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085818 | US APPLICATIONS | 24-MAR-2016

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A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085805 | US APPLICATIONS | 24-MAR-2016

27. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085825 | US APPLICATIONS | 24-MAR-2016

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A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085822 | US APPLICATIONS | 24-MAR-2016

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CURRENT ASSIGNEES: RULE 14
US20160085827 | US APPLICATIONS | 24-MAR-2016

30. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085821 | US APPLICATIONS | 24-MAR-2016

31. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085819 | US APPLICATIONS | 24-MAR-2016

32. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14

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US20160085823 | US APPLICATIONS | 24-MAR-2016

Manage | Discover | Map

New Query

Save Query

Export Results

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COLLAPSE MENU

33. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085803 | US APPLICATIONS | 24-MAR-2016

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A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085806 | US APPLICATIONS | 24-MAR-2016

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A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085820 | US APPLICATIONS | 24-MAR-2016

36. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085824 | US APPLICATIONS | 24-MAR-2016

37. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085826 | US APPLICATIONS | 24-MAR-2016

38. **System and Method for Automatic Generation of Information-Rich Content from Multiple Microblogs, Each Microblog Containing Only Sparse Information**

A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information, the method comprising collecting a population of microblogs comprising microblog data, each microblog containing a limited number of characters;...

CURRENT ASSIGNEES: QATAR FNDN
US20150261773 | US APPLICATIONS | 17-SEP-2015

39. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
EP3018414A2 | EUROPEAN APPLICATIONS | 04-MAY-2016

40. **Method and system for information discovery and text analysis**

A method for searching text sources including temporally-ordered data objects, such as a blog, is provided including the steps of: (i) providing access to text sources, each text source including temporally-ordered data objects; (ii) obtaining or generating a search query based on terms and time...

CURRENT ASSIGNEES: SYSOMOS INC
EP2122506A1 | EUROPEAN APPLICATIONS | 25-NOV-2009

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41. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: PULE 14
WO2014210184A2 | WIPO APPLICATIONS | 31-DEC-2014

42. **Method and system for information discovery and text analysis**

A method for searching text sources including temporally-ordered data objects, such as a blog, is provided including the steps of: (i) providing access to text sources, each text source including temporally-ordered data objects; (ii) obtaining or generating a search query based on terms and time ..

CURRENT ASSIGNEES: KOUDAS NICK [+3]
WO2008083504A1 | WIPO APPLICATIONS | 17-JUL-2008

43. **A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information**

A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information, the method comprising collecting a population of microblogs comprising microblog data, each microblog containing a limited number of characters;...

CURRENT ASSIGNEES: QATAR FNDN
EP2859472A1 | EUROPEAN APPLICATIONS | 15-APR-2015

44. **Method and system for information discovery and text analysis**

A method for searching text sources including temporally-ordered data objects, such as a blog, is provided including the steps of: (i) providing access to text sources, each text source including temporally-ordered data objects; (ii) obtaining or generating a search query based on terms and time ..

CURRENT ASSIGNEES: SYSOMOS INC
US9256667 | US PATENTS | 09-FEB-2016

45. **Method and system for information discovery and text analysis**

A method for searching text sources including temporally-ordered data objects, such as a blog, is provided including the steps of: (i) providing access to text sources, each text source including temporally-ordered data objects; (ii) obtaining or generating a search query based on terms and time..

CURRENT ASSIGNEES: SYSOMOS INC
US20090319518 | US APPLICATIONS | 24-DEC-2009

46. **A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information**

A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information, the method comprising collecting a population of microblogs comprising microblog data, each microblog containing a limited number of characters;...

CURRENT ASSIGNEES: QATAR FNDN [+1]
WO2014005557A1 | WIPO APPLICATIONS | 09-JAN-2014

47. **Social media contributor weight**

A system and method is disclosed for measuring contributor weight or influence in social media. Content posted by a user on one or more social media platforms is identified. The identifying the content posted by the user includes searching the one or more social media platforms for content posted by...

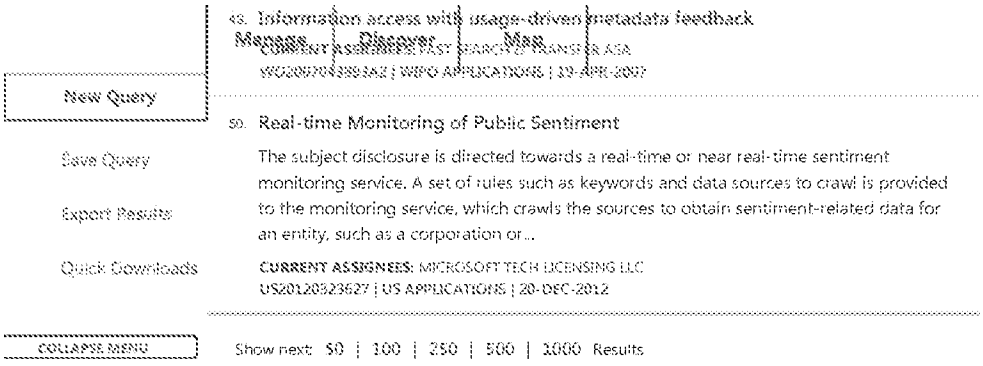
CURRENT ASSIGNEES: ADOBE SYS INC
US8655938 | US PATENTS | 18-FEB-2014

48. **Social media measurement**

A system and method is disclosed for measuring social media. A social media measurement tool is configured to receive or otherwise determine a keyword for evaluation. The tool identifies directly relevant content on one or more social media platforms, where the directly relevant content includes the...

CURRENT ASSIGNEES: ADOBE SYS INC
US8676875 | US PATENTS | 18-MAR-2014

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1. **Method and system relating to sentiment analysis of electronic content**

   Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further, a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...

   CURRENT ASSIGNEES: WHYZ TECH LTD
   WO2013170344A1 | WIPO APPLICATIONS | 21-NOV-2013

2. **Method and system relating to sentiment analysis of electronic content**

   Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further, a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...

   CURRENT ASSIGNEES: WHYZ TECH LTD
   CA2865186C | CANADIAN PATENTS | 20-OCT-2015

3. **Method and system relating to sentiment analysis of electronic content**

   Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further, a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...

   CURRENT ASSIGNEES: WHYZ TECH LTD
   CA2865186A1 | CANADIAN APPLICATIONS | 21-NOV-2013

4. **Method and system relating to re-labelling multi-document clusters**

   Individuals receive overwhelming barrage of information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. However, prior art tools for automatically processing content, such as for example returning search results from an Internet or database search...

   CURRENT ASSIGNEES: WHYZ TECH LTD
   WO2013170345A1 | WIPO APPLICATIONS | 21-NOV-2013

5. **Method and system relating to re-labelling multi-document clusters**

   Individuals receive overwhelming barrage of information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. However, prior art tools for automatically processing content, such as for example returning search results from an Internet or database search...

   CURRENT ASSIGNEES: WHYZ TECH LTD
   US20130311462 | US APPLICATIONS | 21-NOV-2013

6. **Method and system relating to re-labelling multi-document clusters**

   Individuals receive overwhelming barrage of information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. However, prior art tools for automatically processing content, such as for example returning search results from an Internet or database search...

   CURRENT ASSIGNEES: WHYZ TECH LTD
   CA2865184A1 | CANADIAN APPLICATIONS | 21-NOV-2013

7. **Method and system relating to salient content extraction for electronic content**

   Individuals receive overwhelming barrage of information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. Automatic approaches to "scraping" salient content from sources of content are provided allowing the salient content to be provided to the user...

   CURRENT ASSIGNEES: WHYZ TECH LTD
   US20130311369 | US APPLICATIONS | 21-NOV-2013

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8. Watching a user's online world

The present invention provides methods and systems for use in assessing sentiment of users associated with one or more Web-based activities or communications of a user, which can include messaging associated with one or more social networking applications. Furthermore, information or services are...

CURRENT ASSIGNEES: YAHOO INC
US20110264531 | US APPLICATIONS | 27-OCT-2011

9. Method and system relating to salient content extraction for electronic content

Individuals receive overwhelming barrage of information which must be filtered, processed, analyzed, reviewed, consolidated and distributed or acted upon. Automatic approaches to "scraping" salient content from sources of content are provided allowing the salient content to be provided to the user...

CURRENT ASSIGNEES: WHYZ TECH LTD
US9336202 | US PATENTS | 10-MAY-2016

10. System and Method for Facilitating Management of Structured Sentiment Content

The present invention provides a structured sentiment expression and management system and method. The present invention can receive sentiment content from at least two contributing users, wherein the received content is structured according to a specific human emotion, gesture or feeling and a...

CURRENT ASSIGNEES: JABFAB INC
US20130018957 | US APPLICATIONS | 17-JAN-2013

11. Method and system relating to salient content extraction for electronic content

Automatic approaches to scraping salient content from sources of content are provided that allow the salient content to be provided to the user or subjected for further processing such as clustering or sentiment analysis. Embodiments of the invention provide for: automated scraper induction based on...

CURRENT ASSIGNEES: WHYZ TECH LTD
WO2013170343A1 | WIPO APPLICATIONS | 21-NOV-2013

12. System and Method for Social Influence Credentialing within a Sentiment Sharing Community

The present invention provides a structured sentiment expression and management system and method. The present invention can receive sentiment content from at least two contributing users, wherein the received content is structured according to a specific human emotion, gesture or feeling and a...

CURRENT ASSIGNEES: JABFAB INC
US20130018838 | US APPLICATIONS | 17-JAN-2013

13. System and Method for Facilitating the Provision of Situation-Based Value, Service or Response

The present invention provides a structured sentiment expression and management system and method. The present invention can receive sentiment content from at least two contributing users, wherein the received content is structured according to a specific human emotion, gesture or feeling and a...

CURRENT ASSIGNEES: JABFAB INC
US20130018698 | US APPLICATIONS | 17-JAN-2013

14. Personalization search engine

Methods and apparatus provide for a personalization search engine that receives a search query from a first user and identifies multiple portions of indexed content—where each respective portion of indexed content has metadata that matches at least one characteristic of the search query. The...

CURRENT ASSIGNEES: PINK FLAMINGO SERIES 31 OF ALLIED SECURITY TRUST I
US8626753 | US PATENTS | 07-JAN-2014

15. System and Method for Tasking Based Upon Social Influence

The present invention provides a structured sentiment expression and management system and method. The present invention can receive sentiment content from at least two contributing users, wherein the received content is structured according to a specific human emotion, gesture or feeling and a...

CURRENT ASSIGNEES: JABFAB INC

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US20130138668 | US APPLICATIONS | 17-MAY-2013

16. **Method and system relating to salient content extraction for electronic content**

Automatic approaches to scraping salient content from sources of content are provided that allow the salient content to be provided to the user or subjected for further processing such as clustering or sentiment analysis. Embodiments of the invention provide for: automated scraper induction based on...

CURRENT ASSIGNEES: WHYZ TECH LTD [+3]
CA2865187C | CANADIAN PATENTS | 22-SEP-2015

17. **Information access with usage-driven metadata feedback**

In a method for displaying and capturing metadata of documents within result presentations in information access or search systems, a metadata server is used for storing a metadata associated with any searchable document and the end users are given the opportunity to view and edit metadata...

CURRENT ASSIGNEES: MICROSOFT INTL HLDG BV [+3]
US8135669 | US PATENTS | 13-MAR-2012

18. **Method and system relating to salient content extraction for electronic content**

Automatic approaches to scraping salient content from sources of content are provided that allow the salient content to be provided to the user or subjected for further processing such as clustering or sentiment analysis. Embodiments of the invention provide for: automated scraper induction based on...

CURRENT ASSIGNEES: WHYZ TECH LTD
CA2865187A1 | CANADIAN APPLICATIONS | 21-NOV-2013

19. **Personalization search engine**

Methods and apparatus provide for a personalization search engine that receives a search query from a first user and identifies multiple portions of indexed content---where each respective portion of indexed content has metadata that matches at least one characteristic of the search query. The...

CURRENT ASSIGNEES: PINK FLAMINGO SERIES 31 OF ALLIED SECURITY TRUST I
US8260774 | US PATENTS | 04-SEP-2012

20. **System and method for evaluating sentiment**

An example system and method elicits reviews and opinions from users via an online system or a web crawl. Opinions on topics are processed in real time to determine orientation. Each topic is analyzed sentence by sentence to find a central tendency of user orientation toward a given topic. Automatic...

CURRENT ASSIGNEES: CHOWDHURY ABDUR [+3]
US20080154883 | US APPLICATIONS | 26-JUN-2008

21. **System and method for evaluating sentiment**

An example system and method elicits reviews and opinions from users via an online system or a web crawl. Opinions on topics are processed in real time to determine orientation. Each topic is analyzed sentence by sentence to find a central tendency of user orientation toward a given topic. Automatic...

CURRENT ASSIGNEES: TWITTER INC
US8862591 | US PATENTS | 14-OCT-2014

22. **System and method for evaluating sentiment**

An example system and method elicits reviews and opinions from users via an online system or a web crawl. Opinions on topics are processed in real time to determine orientation. Each topic is analyzed sentence by sentence to find a central tendency of user orientation toward a given topic. Automatic...

CURRENT ASSIGNEES: CHOWDHURY ABDUR [+3]
US20100050118 | US APPLICATIONS | 25-FEB-2010

23. **System and method for evaluating sentiment**

An example system and method elicits reviews and opinions from users via an online system or a web crawl. Opinions on topics are processed in real time to determine orientation. Each topic is analyzed sentence by sentence to find a central tendency of user orientation toward a given topic. Automatic...

CURRENT ASSIGNEES: CHOWDHURY ABDUR [+3]
US9092421 | US PATENTS | 28-JUL-2015

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24. Real-time Monitoring of Public Sentiment

The subject disclosure is directed towards a real-time or near real-time sentiment monitoring service. A set of rules such as keywords and data sources to crawl is provided to the monitoring service, which crawls the sources to obtain sentiment-related data for an entity, such as a corporation or...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20120323627 | US APPLICATIONS | 20-DEC-2012

25. System and method for evaluating sentiment

An example system and method elicits reviews and opinions from users via an online system or a web crawl. Opinions on topics are processed in real time to determine orientation. Each topic is analyzed sentence by sentence to find a central tendency of user orientation toward a given topic. Automatic...

CURRENT ASSIGNEES: TWITTER INC
US20150331563 | US APPLICATIONS | 19-NOV-2015

26. System and method for providing argument maps based on activity in a network environment

A method is provided in one example and includes receiving network traffic associated with a first user and a second user; evaluating keywords in the network traffic in order to identify a topic of discussion involving the first and the second users; determining a first sentiment associated with a...

CURRENT ASSIGNEES: CISCO TECH INC
US20120158989 | US APPLICATIONS | 21-JUN-2012

27. System and method for topic based sentiment search and sharing across a network

A computer implemented method of collecting, exchanging and displaying both real-time and historical sentiments on a topic comprises establishing a topic upon which a sentiment can be rendered; detecting and storing a sentiment on said topic and causing said sentiment to be displayed for others to...

CURRENT ASSIGNEES: VERTICAL AXIS INC
EP2487636A1 | EUROPEAN APPLICATIONS | 15-AUG-2012

28. System and method for topic based sentiment search and sharing across a network

A computer implemented method of collecting, exchanging and displaying both real-time and historical sentiments on a topic comprises establishing a topic upon which a sentiment can be rendered, detecting and storing a sentiment on said topic and causing said sentiment to be displayed for others to...

CURRENT ASSIGNEES: VERTICAL AXIS INC
CA2767691A1 | CANADIAN APPLICATIONS | 09-AUG-2012

29. Searching a user'S online world

The present invention provides methods and systems for use in searching a user's online world, across independently provided applications including Web-based and desktop applications, which can include Web sites. Techniques are provided in which information is collected and indexed relating to...

CURRENT ASSIGNEES: YAHOO INC
WO2011139552A2 | WIPO APPLICATIONS | 10-NOV-2011

30. Searching a user'S online world

The present invention provides methods and systems for use in searching a user's online world, across independently provided applications including Web-based and desktop applications, which can include Web sites. Techniques are provided in which information is collected and indexed relating to...

CURRENT ASSIGNEES: YAHOO INC
US20110264525 | US APPLICATIONS | 27-OCT-2011

31. Nlp-based sentiment analysis

Methods, systems, and techniques for providing sentiment analysis and for presenting the results of such analysis Example embodiments provide a Sentiment Analysis System ("SAS"), which provides tools to enable authors, programmers, users, developers, and the like to incorporate sentiment analysis...

CURRENT ASSIGNEES: VOYC III LLC
US20120041937 | US APPLICATIONS | 16-FEB-2012

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COLLAPSE MENU

STIC

33. Systems and methods for customized filtering and analysis of social Manage and Presented over Social networks

A new approach is proposed that contemplates systems and methods to filter and/or rank a plurality of content items retrieved from a social network based on the sentiments expressed by the authors of the content items and/or the influence level of the authors over the social network. First, content...

CURRENT ASSIGNEES: APPLE INC
US20130297581 | US APPLICATIONS | 07-NOV-2013

34. Sentiment analysis from social media content

The sentiment engine includes a sentiment module configured to gather opinions or determine sentiment expressed in documents, a crawling module configured to crawl servers to obtain at least a subset of the documents or opinions from social media websites, a keyword module configured to extract...

CURRENT ASSIGNEES: METAVANA INC
WO2013049774A2 | WIPO APPLICATIONS | 04-APR-2013

34. Sentiment Analysis From Social Media Content

The sentiment engine includes a sentiment module configured to gather opinions or determine sentiment expressed in documents, a crawling module configured to crawl servers to obtain at least a subset of the documents or opinions from social media websites, a keyword module configured to extract...

CURRENT ASSIGNEES: MOODWIRE INC
US20130091117 | US APPLICATIONS | 11-APR-2013

35. Sentiment analysis from social media content

The sentiment engine includes a sentiment module configured to gather opinions or determine sentiment expressed in documents, a crawling module configured to crawl servers to obtain at least a subset of the documents or opinions from social media websites, a keyword module configured to extract...

CURRENT ASSIGNEES: MOODWIRE INC
US8849826 | US PATENTS | 30-SEP-2014

36. Sentiment-based classification of media content

A set of comments associated with an item of media content is identified. A set of sentiment scores associated with the set of comments is generated, wherein each sentiment score indicates a type of sentiment expressed in a comment. The sentiment profile is generated responsive at least in part to...

CURRENT ASSIGNEES: GOOGLE INC
US9129008 | US PATENTS | 08-SEP-2015

37. Sentiment-based classification of media content

A set of comments associated with an item of media content is identified. A set of sentiment scores associated with the set of comments is generated, wherein each sentiment score indicates a type of sentiment expressed in a comment. The sentiment profile is generated responsive at least in part to...

CURRENT ASSIGNEES: GOOGLE INC
US9495425 | US PATENTS | 15-NOV-2016

38. Method and system for a search engine for user generated content (Ugc)

A method and system for a search engine for user generated content have been disclosed. According to one embodiment, a computer implemented method comprises receiving a search request from a client, the search request directed to user generated content. Relevant user generated content is retrieved,...

CURRENT ASSIGNEES: TIP TOP TECH INC
US20100306192 | US APPLICATIONS | 02-DEC-2010

39. Systems and methods for consumer-generated media reputation management

A computing system configured to gather social media content includes a memory; a content collection and ingestion system, stored in the memory and configured, when executed on a computer processor, to communicate with one or more computing systems to direct a search of a content source using a...

CURRENT ASSIGNEES: VISIBLE TECH INC
WO2012034136A2 | WIPO APPLICATIONS | 15-MAR-2012

40.

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Systems and methods for consumer-generated media reputation management

A computing system configured to gather social media content includes a memory; a content collection and ingestion system, stored in the memory and configured, when executed on a computer processor, to communicate with one or more computing systems to direct a search of a content source using a...

CURRENT ASSIGNEES: VOCUS INC
EP2614484A2 | EUROPEAN APPLICATIONS | 17-JUL-2013

41. Method and system for a search engine for user generated content (UGC)

A method and system for a search engine for user generated content have been disclosed. According to one embodiment, a computer implemented method comprises receiving a search request from a client, the search request directed to user generated content. Relevant user generated content is retrieved,...

CURRENT ASSIGNEES: TIP TOP TECH INC
US9235646 | US PATENTS | 12-JAN-2016

42. Systems and methods for consumer-generated media reputation management

A computing system configured so gather social media content includes a memory; a content collection and ingestion system, stored in the memory and configured, when executed on a computer processor, to communicate with, one or more computing systems to direct a search of a content source using a...

CURRENT ASSIGNEES: MOSLEY CLIFFORD [+1]
US20160179959 | US APPLICATIONS | 23-JUN-2016

43. Content inversion for user searches and product recommendations systems and methods

There is provided systems and method for content inversion for use in user searches and product recommendations. The methods include receiving a first content, wherein the first content includes a first sentence having at least one first sentiment expression, creating a syntactic parse tree of the...

CURRENT ASSIGNEES: PAYPAL INC
US20140040288 | US APPLICATIONS | 06-FEB-2014

44. Content inversion for user searches and product recommendations systems and methods

There is provided systems and method for content inversion for use in user searches and product recommendations. The methods include receiving a first content, wherein the first content includes a first sentence having at least one first sentiment expression, creating a syntactic parse tree of the...

CURRENT ASSIGNEES: PAYPAL INC
US9336297 | US PATENTS | 10-MAY-2016

45. Computer system and method for analyzing data sets and providing personalized recommendations

Embodiments of the invention relate to a computer-implemented method and system for providing personalized recommendations for a target user based at least on stored data about the target user. The method comprises obtaining a plurality of feedback data from a plurality of users, wherein the...

CURRENT ASSIGNEES: OPENTABLE INC
US9396492 | US PATENTS | 19-JUL-2016

46. Computer system and method for analyzing data sets and providing personalized recommendations

Embodiments of the invention relate to a computer-implemented method and system for providing personalized recommendations for a target user based at least on stored data about the target user. The method comprises obtaining a plurality of feedback data from a plurality of users, wherein the...

CURRENT ASSIGNEES: OPENTABLE INC
US20120095863 | US APPLICATIONS | 19-APR-2012

47. System and method for providing argument maps based on activity in a network environment

A method is provided in one example and includes receiving network traffic associated with a first user and a second user; evaluating keywords in the network traffic in order to identify a topic of discussion involving the first and the second users; determining a first sentiment associated with a...

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IPR2025-00623
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CURRENT ASSIGNEES: CISCO TECH INC
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48. **Content inversion for user searches and product recommendations systems and methods**

There is provided systems and method for content inversion for use in user searches and product recommendations. The methods include receiving a first content, wherein the first content includes a first sentence having at least one first sentiment expression, creating a syntactic parse tree of the...

CURRENT ASSIGNEES: PAYPAL INC {+1}
US20160253333 | US APPLICATIONS | 01-SEP-2016

49. **Systems and methods for consumer-generated media reputation management**

A computing system configured to gather social media content includes a memory; a content collection and ingestion system, stored in the memory and configured, when executed on a computer processor, to communicate with one or more computing systems to direct a search of a content source using a...

CURRENT ASSIGNEES: CISION US INC
US20120179752 | US APPLICATIONS | 12-JUL-2012

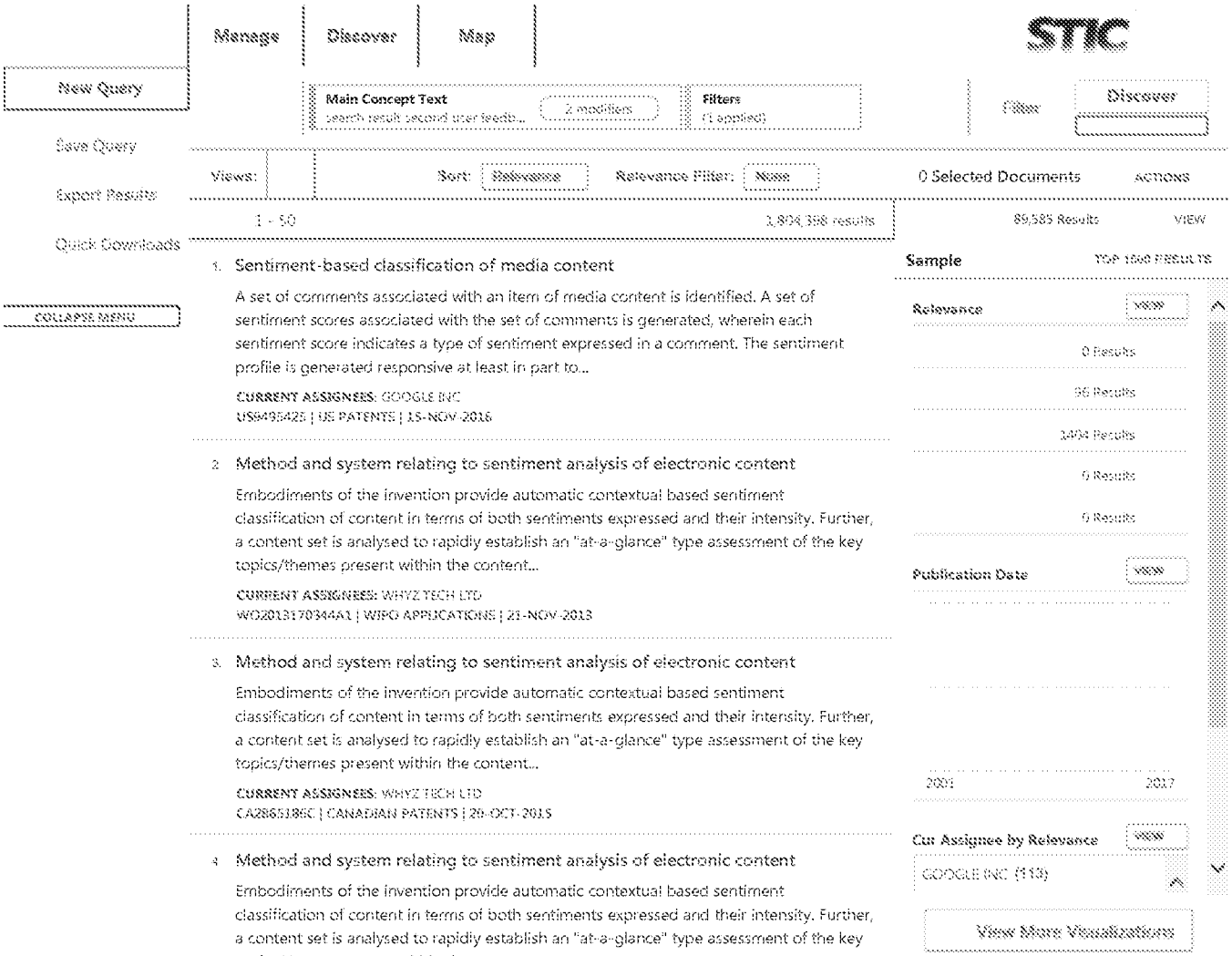
50. **Systems and methods for consumer-generated media reputation management**

A computing system configured to gather social media content includes a memory; a content collection and ingestion system, stored in the memory and configured, when executed on a computer processor, to communicate with one or more computing systems to direct a search of a content source using a...

CURRENT ASSIGNEES: CISION US INC
US9311619 | US PATENTS | 12-APR-2016

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Map
STIC
New Query
Main Concept Text
search result second user feedb...
2 modifiers
Filters
(1 applied)
Filter
Discover
Save Query
Export Results
Quick Downloads
Views:
Sort:
Relevance
Relevance Filter:
None
0 Selected Documents
ACTIONS
1 - 50
3,804,398 results
89,585 Results
VIEW
COLLAPSE MENU
1. Sentiment-based classification of media content
A set of comments associated with an item of media content is identified. A set of sentiment scores associated with the set of comments is generated, wherein each sentiment score indicates a type of sentiment expressed in a comment. The sentiment profile is generated responsive at least in part to...
CURRENT ASSIGNEES: GOOGLE INC
US9495425 | US PATENTS | 15-NOV-2016
2. Method and system relating to sentiment analysis of electronic content
Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further, a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...
CURRENT ASSIGNEES: WHYZ TECH LTD
WO2013170344A1 | WIPO APPLICATIONS | 21-NOV-2013
3. Method and system relating to sentiment analysis of electronic content
Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further, a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...
CURRENT ASSIGNEES: WHYZ TECH LTD
CA2865186C | CANADIAN PATENTS | 20-OCT-2015
4. Method and system relating to sentiment analysis of electronic content
Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further, a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...
CURRENT ASSIGNEES: WHYZ TECH LTD
CA2865186A1 | CANADIAN APPLICATIONS | 21-NOV-2013
5. System and Method for Facilitating Management of Structured Sentiment Content
The present invention provides a structured sentiment expression and management system and method. The present invention can receive sentiment content from at least two contributing users, wherein the received content is structured according to a specific human emotion, gesture or feeling and a...
CURRENT ASSIGNEES: JABFAB INC
US20130018957 | US APPLICATIONS | 17-JAN-2013
6. System and Method for Social Influence Credentialing within a Sentiment Sharing Community
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CURRENT ASSIGNEES: JABFAB INC
US20130018838 | US APPLICATIONS | 17-JAN-2013
7. System and Method for Facilitating the Provision of Situation-Based Value, Service or Response
The present invention provides a structured sentiment expression and management system and method. The present invention can receive sentiment content from at least two contributing users, wherein the received content is structured according to a specific human emotion, gesture or feeling and a...
CURRENT ASSIGNEES: JABFAB INC
Sample
TOP 1000 RESULTS
Relevance
VIEW
0 Results
96 Results
3,804 Results
0 Results
0 Results
Publication Date
VIEW
2001
2017
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US20130018685 | US APPLICATIONS | 17-JAN-2013

8. System and Method for Tasking Based Upon Social Influence

The present invention provides a structured sentiment expression and management system and method. The present invention can receive sentiment content from at least two contributing users, wherein the received content is structured according to a specific human emotion, gesture or feeling and a...

CURRENT ASSIGNEES: JABFAB INC
US20130018685 | US APPLICATIONS | 17-JAN-2013

9. Method and system relating to re-labelling multi-document clusters

Individuals receive overwhelming barrage of information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. However, prior art tools for automatically processing content, such as for example returning search results from an Internet or database search...

CURRENT ASSIGNEES: WHYZ TECH LTD
WO2013170345A1 | WIPO APPLICATIONS | 21-NOV-2013

10. Method and system relating to re-labelling multi-document clusters

Individuals receive overwhelming barrage of information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. However, prior art tools for automatically processing content, such as for example returning search results from an Internet or database search...

CURRENT ASSIGNEES: WHYZ TECH LTD
US20130311462 | US APPLICATIONS | 21-NOV-2013

11. Watching a user'S online world

The present invention provides methods and systems for use in assessing sentiment of users associated with one or more Web-based activities or communications of a user, which can include messaging associated with one or more social networking applications. Furthermore, information or services are...

CURRENT ASSIGNEES: YAHOO INC
US20110264531 | US APPLICATIONS | 27-OCT-2011

12. Personalization search engine

Methods and apparatus provide for a personalization search engine that receives a search query from a first user and identifies multiple portions of indexed content---where each respective portion of indexed content has metadata that matches at least one characteristic of the search query. The...

CURRENT ASSIGNEES: PINK FLAMINGO SERIES 31 OF ALLIED SECURITY TRUST I
US8626753 | US PATENTS | 07-JAN-2014

13. Systems and methods for customized filtering and analysis of social media content collected over social networks

A new approach is proposed that contemplates systems and methods to filter and/or rank a plurality of content items retrieved from a social network based on the sentiments expressed by the authors of the content items and/or the influence level of the authors over the social network. First, content...

CURRENT ASSIGNEES: APPLE INC
US20130297581 | US APPLICATIONS | 07-NOV-2013

14. System and method for topic based sentiment search and sharing across a network

A computer implemented method of collecting, exchanging and displaying both real-time and historical sentiments on a topic comprises establishing a topic upon which a sentiment can be rendered; detecting and storing a sentiment on said topic and causing said sentiment to be displayed for others to...

CURRENT ASSIGNEES: VERTICAL AXIS INC
EP2487636A1 | EUROPEAN APPLICATIONS | 15-AUG-2012

15. System and method for topic based sentiment search and sharing across a network

A computer implemented method of collecting, exchanging and displaying both real-time and historical sentiments on a topic comprises establishing a topic upon which a sentiment can be rendered, detecting and storing a sentiment on said topic and causing said sentiment to be displayed for others to...

CURRENT ASSIGNEES: VERTICAL AXIS INC

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CA2787933A1 | CANADIAN APPLICATIONS | 09-AUG-2012

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COLLAPSE MENU

16. **Personalization search engine**

Methods and apparatus provide for a personalization search engine that receives a search query from a first user and identifies multiple portions of indexed content---where each respective portion of indexed content has metadata that matches at least one characteristic of the search query. The...

CURRENT ASSIGNEES: PINK FLAMINGO SERIES 31 OF ALLIED SECURITY TRUST I
US8260774 | US PATENTS | 04-SEP-2012

17. **System and method for evaluating sentiment**

An example system and method elicits reviews and opinions from users via an online system or a web crawl. Opinions on topics are processed in real time to determine orientation. Each topic is analyzed sentence by sentence to find a central tendency of user orientation toward a given topic. Automatic...

CURRENT ASSIGNEES: CHOWDHURY ABDUR [+3]
US20080154883 | US APPLICATIONS | 26-JUN-2008

18. **System and method for evaluating sentiment**

An example system and method elicits reviews and opinions from users via an online system or a web crawl. Opinions on topics are processed in real time to determine orientation. Each topic is analyzed sentence by sentence to find a central tendency of user orientation toward a given topic. Automatic...

CURRENT ASSIGNEES: TWITTER INC
US8862591 | US PATENTS | 14-OCT-2014

19. **System and method for evaluating sentiment**

An example system and method elicits reviews and opinions from users via an online system or a web crawl. Opinions on topics are processed in real time to determine orientation. Each topic is analyzed sentence by sentence to find a central tendency of user orientation toward a given topic. Automatic...

CURRENT ASSIGNEES: CHOWDHURY ABDUR [+3]
US9092421 | US PATENTS | 28-JUL-2015

20. **System and method for evaluating sentiment**

An example system and method elicits reviews and opinions from users via an online system or a web crawl. Opinions on topics are processed in real time to determine orientation. Each topic is analyzed sentence by sentence to find a central tendency of user orientation toward a given topic. Automatic...

CURRENT ASSIGNEES: CHOWDHURY ABDUR [+3]
US20100050118 | US APPLICATIONS | 25-FEB-2010

21. **System and method for evaluating sentiment**

An example system and method elicits reviews and opinions from users via an online system or a web crawl. Opinions on topics are processed in real time to determine orientation. Each topic is analyzed sentence by sentence to find a central tendency of user orientation toward a given topic. Automatic...

CURRENT ASSIGNEES: TWITTER INC
US20150331563 | US APPLICATIONS | 19-NOV-2015

22. **Information access with usage-driven metadata feedback**

In a method for displaying and capturing metadata of documents within result presentations in information access or search systems, a metadata server is used for storing a metadata associated with any searchable document and the end users are given the opportunity to view and edit metadata...

CURRENT ASSIGNEES: MICROSOFT INTL HLDG BV [+1]
US8135669 | US PATENTS | 13-MAR-2012

23. **Computer system and method for analyzing data sets and providing personalized recommendations**

Embodiments of the invention relate to a computer-implemented method and system for providing personalized recommendations for a target user based at least on stored data about the target user. The method comprises obtaining a plurality of feedback data from a plurality of users, wherein the...

CURRENT ASSIGNEES: OPENTABLE INC
US9396492 | US PATENTS | 19-JUL-2016

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COLLAPSE MENU

26. **Computer system and method for analyzing data sets and providing personalized recommendations**

Embodiments of the invention relate to a computer-implemented method and system for providing personalized recommendations for a target user based at least on stored data about the target user. The method comprises obtaining a plurality of feedback data from a plurality of users, wherein the...

CURRENT ASSIGNEES: OPENTABLE INC
US20120095863 | US APPLICATIONS | 19-APR-2012

25. **Systems and methods for consumer-generated media reputation management**

A computing system configured to gather social media content includes a memory; a content collection and ingestion system, stored in the memory and configured, when executed on a computer processor, to communicate with one or more computing systems to direct a search of a content source using a...

CURRENT ASSIGNEES: VISIBLE TECH INC
WO2012034136A2 | WIPO APPLICATIONS | 15-MAR-2012

24. **Systems and methods for consumer-generated media reputation management**

A computing system configured to gather social media content includes a memory; a content collection and ingestion system, stored in the memory and configured, when executed on a computer processor, to communicate with one or more computing systems to direct a search of a content source using a...

CURRENT ASSIGNEES: VOCUS INC
EP2614484A2 | EUROPEAN APPLICATIONS | 17-JUL-2013

27. **Sentiment analysis from social media content**

The sentiment engine includes a sentiment module configured to gather opinions or determine sentiment expressed in documents, a crawling module configured to crawl servers to obtain at least a subset of the documents or opinions from social media websites, a keyword module configured to extract...

CURRENT ASSIGNEES: METAVANA INC
WO2013049774A2 | WIPO APPLICATIONS | 04-APR-2013

28. **Systems and methods for consumer-generated media reputation management**

A computing system configured so gather social media content includes a memory; a content collection and ingestion system, stored in the memory and configured, when executed on a computer processor, to communicate with, one or more computing systems to direct a search of a content source using a...

CURRENT ASSIGNEES: MOSLEY CLIFFORD [+13]
US20160179959 | US APPLICATIONS | 23-JUN-2016

29. **Nlp-based sentiment analysis**

Methods, systems, and techniques for providing sentiment analysis and for presenting the results of such analysis Example embodiments provide a Sentiment Analysis System ("SAS"), which provides tools to enable authors, programmers, users, developers, and the like to incorporate sentiment analysis ..

CURRENT ASSIGNEES: VCVC III LLC
US20120041937 | US APPLICATIONS | 16-FEB-2012

30. **A computer system and method for analyzing data sets and providing personalized recommendations**

Method and system for providing personalized recommendations for a target user based at least on stored data about the target user. The method comprises obtaining a plurality of feedback data from a plurality of users, wherein the feedback data comprises an indication of a media object, a response ..

CURRENT ASSIGNEES: NESS COMPUTING INC
WO2012051583A1 | WIPO APPLICATIONS | 19-APR-2012

31. **Sentiment Analysis From Social Media Content**

The sentiment engine includes a sentiment module configured to gather opinions or determine sentiment expressed in documents, a crawling module configured to crawl servers to obtain at least a subset of the documents or opinions from social media websites, a keyword module configured to extract...

CURRENT ASSIGNEES: MOODWIRE INC

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US20130311117 | US APPLICATIONS | 21-NOV-2013

32. Systems and methods for discovery of related terms for social media content collection over social networks

A new approach is proposed that contemplates systems and methods to discover one or more terms related to one or more query terms submitted by a user for search over a social media network, wherein the related terms discovered are trending and co-occurring with the submitted query terms over the...

CURRENT ASSIGNEES: APPLE INC
US20130304818 | US APPLICATIONS | 14-NOV-2013

33. Systems and methods for consumer-generated media reputation management

A computing system configured to gather social media content includes a memory; a content collection and ingestion system, stored in the memory and configured, when executed on a computer processor, to communicate with one or more computing systems to direct a search of a content source using a...

CURRENT ASSIGNEES: CISION US INC
US20120179752 | US APPLICATIONS | 12-JUL-2012

34. Systems and methods for identifying geographic locations of social media content collected over social networks

A new approach is proposed that contemplates systems and methods to identify geographic locations of all social media content items retrieved form a social network in real time, wherein the geographic locations are physical locations from which the social media content items are originated or...

CURRENT ASSIGNEES: APPLE INC
US20140040371 | US APPLICATIONS | 06-FEB-2014

35. Sentiment analysis from social media content

The sentiment engine includes a sentiment module configured to gather opinions or determine sentiment expressed in documents, a crawling module configured to crawl servers to obtain at least a subset of the documents or opinions from social media websites, a keyword module configured to extract...

CURRENT ASSIGNEES: MOODWIRE INC
US8849826 | US PATENTS | 30-SEP-2014

36. Systems and methods for consumer-generated media reputation management

A computing system configured to gather social media content includes a memory; a content collection and ingestion system, stored in the memory and configured, when executed on a computer processor, to communicate with one or more computing systems to direct a search of a content source using a...

CURRENT ASSIGNEES: CISION US INC
US9311619 | US PATENTS | 12-APR-2016

37. Computerized internet search system and method

The present invention provides a system and method that can search social media and Internet websites, and can analyze and display the results according to a variety of criteria including virality on social media websites. The results are presented in a user friendly format such as a magazine,...

CURRENT ASSIGNEES: ITWICK INC
US9158853 | US PATENTS | 13-OCT-2015

38. Method and system relating to re-labelling multi-document clusters

Individuals receive overwhelming barrage of information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. However, prior art tools for automatically processing content, such as for example returning search results from an Internet or database search...

CURRENT ASSIGNEES: WHYZ TECH LTD
CA2865184A1 | CANADIAN APPLICATIONS | 21-NOV-2013

39. Computerized internet search system and method

The present invention provides a system and method that can search social media and Internet websites, and can analyze and display the results according to a variety of criteria including virality on social media websites. The results are presented in a user friendly format such as a magazine,...

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CURRENT ASSIGNEES: MANCHESTER SECURITIES CORP
Managing Discovery Map AUG 2016

STIC

40. Computerized internet search system and method

The present invention provides a system and method that can search social media and Internet websites, and can analyze and display the results according to a variety of criteria including virality on social media websites. The results are presented in a user friendly format such as a magazine,...

CURRENT ASSIGNEES: TTWICK INC
US20150261806 | US APPLICATIONS | 17-SEP-2015

41. The system and method of the reputation management of consumer outgoing media

A memory computing system configured to collect social media content; when stored in a memory and executed on a computer processor, instructs the search of content sources using the acquisition request received, for incorporation into the data storage unit the results of a search that has been...

CURRENT ASSIGNEES: ビジアル・データ・リミテッド
JP2013543610A | JAPANESE APPLICATIONS | 05-DEC-2013

42. Computerized internet search system and method

The present invention provides a system and method that can search social media and Internet websites, and can analyze and display the results according to a variety of criteria including virality on social media websites. The results are presented in a user friendly format such as a magazine,...

CURRENT ASSIGNEES: TTWICK INC
US9213733 | US PATENTS | 15-DEC-2015

43. System and method for providing argument maps based on activity in a network environment

A method is provided in one example and includes receiving network traffic associated with a first user and a second user; evaluating keywords in the network traffic in order to identify a topic of discussion involving the first and the second users; determining a first sentiment associated with a...

CURRENT ASSIGNEES: CISCO TECH INC
US20120158989 | US APPLICATIONS | 21-JUN-2012

44. Real-time Monitoring of Public Sentiment

The subject disclosure is directed towards a real-time or near real-time sentiment monitoring service. A set of rules such as keywords and data sources to crawl is provided to the monitoring service, which crawls the sources to obtain sentiment-related data for an entity, such as a corporation or...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20120323827 | US APPLICATIONS | 20-DEC-2012

45. Searching a user'S online world

The present invention provides methods and systems for use in searching a user's online world, across independently provided applications including Web-based and desktop applications, which can include Web sites. Techniques are provided in which information is collected and indexed relating to...

CURRENT ASSIGNEES: YAHOO INC
US20110264525 | US APPLICATIONS | 27-OCT-2011

46. Searching a user'S online world

The present invention provides methods and systems for use in searching a user's online world, across independently provided applications including Web-based and desktop applications, which can include Web sites. Techniques are provided in which information is collected and indexed relating to...

CURRENT ASSIGNEES: YAHOO INC
WO2011139552A2 | WIPO APPLICATIONS | 10-NOV-2011

47. Computerized internet search system and method

The present invention provides a system and method that can search social media and Internet websites, and can analyze and display the results according to a variety of criteria including virality on social media websites. The results are presented in a user friendly format such as a magazine,...

CURRENT ASSIGNEES: TTWICK INC

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WO2013142759A1 | WIPO APPLICATIONS | 26-SEP-2013

48. **Computerized Internet Search System and Method**

The present invention provides a system and method that can search social media and Internet websites, and can analyze and display the results according to a variety of criteria including virality on social media websites. The results are presented in a user friendly format such as a magazine,...

CURRENT ASSIGNEES: TTWICK INC
US20140289216 | US APPLICATIONS | 25-SEP-2014

49. **Use of user-generated content to rank products**

Product scores are generated for products. The product scores for the products are based on amounts of user-generated content (UGC) mentioning the products and based on how favorable the UGC is toward the products. A product comparison interface is provided to a consumer. The product comparison...

CURRENT ASSIGNEES: ECHIDNA INC
US20130185175 | US APPLICATIONS | 18-JUL-2013

50. **Computerized internet search system and method**

The present invention provides a system and method that can search social media and Internet websites, and can analyze and display the results according to a variety of criteria including virality on social media websites. The results are presented in a user friendly format such as a magazine,...

CURRENT ASSIGNEES: MANCHESTER SECURITIES CORP
EP2829723A1 | EUROPEAN APPLICATIONS | 28-JAN-2015

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STIC

New Query

Main Concept Text
search result query monitor user feedback sentim...

Clear | Discover

Save Query

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Views: | Sort: Relevance | Relevance Filter: None | 0 Selected Documents | Actions

1 - 50 5,459,173 results

191,691 Results VIEW

COLLAPSE MENU

1. Realtime popularity prediction for events and queries

A system, media, and method for realtime popularity prediction for event and queries are provided. The popularity prediction is made by a prediction engine that is coupled to a search engine, a crawler, and a sentiment component. The prediction engine determines a change in popularity for an event...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20190114954 | US APPLICATIONS | 06-MAY-2019

2. Personalization search engine

Methods and apparatus provide for a personalization search engine that receives a search query from a first user and identifies multiple portions of indexed content---where each respective portion of indexed content has metadata that matches at least one characteristic of the search query. The...

CURRENT ASSIGNEES: PINK FLAMINGO SERIES 31 OF ALLIED SECURITY TRUST I
US8626753 | US PATENTS | 07-JAN-2014

3. Personalization search engine

Methods and apparatus provide for a personalization search engine that receives a search query from a first user and identifies multiple portions of indexed content---where each respective portion of indexed content has metadata that matches at least one characteristic of the search query. The...

CURRENT ASSIGNEES: PINK FLAMINGO SERIES 31 OF ALLIED SECURITY TRUST I
US8260774 | US PATENTS | 04-SEP-2012

4. Watching a user'S online world

The present invention provides methods and systems for use in assessing sentiment of users associated with one or more Web-based activities or communications of a user, which can include messaging associated with one or more social networking applications. Furthermore, information or services are...

CURRENT ASSIGNEES: YAHOO INC
US20110264531 | US APPLICATIONS | 27-OCT-2011

5. Searching a user'S online world

The present invention provides methods and systems for use in searching a user's online world, across independently provided applications including Web-based and desktop applications, which can include Web sites. Techniques are provided in which information is collected and indexed relating to...

CURRENT ASSIGNEES: YAHOO INC
WO2011395S2A2 | WIPO APPLICATIONS | 10-NOV-2011

6. Searching a user'S online world

The present invention provides methods and systems for use in searching a user's online world, across independently provided applications including Web-based and desktop applications, which can include Web sites. Techniques are provided in which information is collected and indexed relating to...

CURRENT ASSIGNEES: YAHOO INC
US20110264525 | US APPLICATIONS | 27-OCT-2011

7. Sentiment-based query processing system and method

A sentiment-based query processing system is provided. A sentiment-based query processing system includes an index establishing unit that divides at least one document into at least one segment, generates an aspect-sentiment pair by extracting an aspect keyword representing an aspect of an object of...

CURRENT ASSIGNEES: KOREA UNIV RSCH & BUSINESS FNDN
US20150227528 | US APPLICATIONS | 13-AUG-2015

8. Real-time and adaptive data mining

Sample TOP 1000 RESULTS

Relevance VIEW

0 Results
140 Results
1360 Results
0 Results
0 Results

Publication Date VIEW

2000 2017

Cur Assignee by Relevance VIEW

MICROSOFT TECH LICENSI... (146)
PINK FLAMINGO SERIES 31... (2)

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COLLAPSE MENU

8. A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US9229977 | US PATENTS | 05-JAN-2016

9. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20140040301 | US APPLICATIONS | 06-FEB-2014

10. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085827 | US APPLICATIONS | 24-MAR-2016

11. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085823 | US APPLICATIONS | 24-MAR-2016

12. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085819 | US APPLICATIONS | 24-MAR-2016

13. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085821 | US APPLICATIONS | 24-MAR-2016

14. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085822 | US APPLICATIONS | 24-MAR-2016

15. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085806 | US APPLICATIONS | 24-MAR-2016

16. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or

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more data sources, monitoring a specific data source selected from the one or more data

CURRENT ASSIGNEES: RULE 14
US20160085803 | US APPLICATIONS | 24-MAR-2016

17. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085804 | US APPLICATIONS | 24-MAR-2016

18. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085825 | US APPLICATIONS | 24-MAR-2016

19. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085805 | US APPLICATIONS | 24-MAR-2016

20. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085813 | US APPLICATIONS | 24-MAR-2016

21. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085826 | US APPLICATIONS | 24-MAR-2016

22. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085824 | US APPLICATIONS | 24-MAR-2016

23. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085820 | US APPLICATIONS | 24-MAR-2016

24. **System and Method for Automatic Generation of Information-Rich Content from Multiple Microblogs, Each Microblog Containing Only Sparse Information**

A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information, the method comprising

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collecting a population of microblogs comprising microblog data, each microblog containing a limited number of characters;...

CURRENT ASSIGNEES: QATAR FNDN
US20150261773 | US APPLICATIONS | 17-SEP-2015

25. **Method and system for information discovery and text analysis**

A method for searching text sources including temporally-ordered data objects, such as a blog, is provided including the steps of: (i) providing access to text sources, each text source including temporally-ordered data objects; (ii) obtaining or generating a search query based on terms and time...

CURRENT ASSIGNEES: SYSOMOS INC
EP2122506A1 | EUROPEAN APPLICATIONS | 25-NOV-2009

26. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
EP3014414A2 | EUROPEAN APPLICATIONS | 04-MAY-2016

27. **Method and system for information discovery and text analysis**

A method for searching text sources including temporally-ordered data objects, such as a blog, is provided including the steps of: (i) providing access to text sources, each text source including temporally-ordered data objects; (ii) obtaining or generating a search query based on terms and time...

CURRENT ASSIGNEES: KOUDAS NICK [+1]
WO2008083504A1 | WIPO APPLICATIONS | 17-JUL-2008

28. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
WO2014210184A2 | WIPO APPLICATIONS | 31-DEC-2014

29. **A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information**

A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information, the method comprising collecting a population of microblogs comprising microblog data, each microblog containing a limited number of characters;...

CURRENT ASSIGNEES: QATAR FNDN
EP2859472A1 | EUROPEAN APPLICATIONS | 15-APR-2015

30. **Get or provide method and apparatus of the search results using a user-based biases**

CURRENT ASSIGNEES: ｸｱﾙｺﾑ･ｲﾝｺｰﾎﾟﾚｲﾃｯﾄ, QUALCOMM INCORPORATED
JP5882157B2 | JAPANESE PATENTS | 09-MAR-2016

31. **Method and system for information discovery and text analysis**

A method for searching text sources including temporally-ordered data objects, such as a blog, is provided including the steps of: (i) providing access to text sources, each text source including temporally-ordered data objects; (ii) obtaining or generating a search query based on terms and time ...

CURRENT ASSIGNEES: SYSOMOS INC
US9256667 | US PATENTS | 09-FEB-2016

32. **System and method for topic based sentiment search and sharing across a network**

A computer implemented method of collecting, exchanging and displaying both real-time and historical sentiments on a topic comprises establishing a topic upon which a sentiment can be rendered; detecting and storing a sentiment on said topic and causing said sentiment to be displayed for others to...

CURRENT ASSIGNEES: VERTICAL AXIS INC

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EP2687988A1 | EUROPEAN APPLICATIONS | 15-AUG-2012

33. **System and method for topic based sentiment search and sharing across a network**

A computer implemented method of collecting, exchanging and displaying both real-time and historical sentiments on a topic comprises establishing a topic upon which a sentiment can be rendered, detecting and storing a sentiment on said topic and causing said sentiment to be displayed for others to...

CURRENT ASSIGNEES: VERTICAL AXIS INC
CA2767691A1 | CANADIAN APPLICATIONS | 09-AUG-2012

34. **Method and apparatus of obtaining or providing search results using user-based biases**

An object of the present invention is based on the friends bias associated with the user, to acquire or provide search results. A is received from the access terminal a raised query by a user, performing a search based on the query. Also, determine the friends bias associated with the user, applying...

CURRENT ASSIGNEES: QUALCOMM INC
JP2015122099A | JAPANESE APPLICATIONS | 02-JUL-2015

35. **Method and system for information discovery and text analysis**

A method for searching text sources including temporally-ordered data objects, such as a blog, is provided including the steps of: (i) providing access to text sources, each text source including temporally-ordered data objects; (ii) obtaining or generating a search query based on terms and time...

CURRENT ASSIGNEES: SYSOMOS INC
US20090319518 | US APPLICATIONS | 24-DEC-2009

36. **Apparatus and method for providing or obtaining of search results using the bias of the user base**

Method, an apparatus, a processor, and a computer program product is provided in order to provide or obtain a search result. Method of providing search results includes conducting a search based on the query and that receives a query raised by the user. To determine a friends bias associated with...

CURRENT ASSIGNEES: クゥアルコム・インコーポレイテッドQUALCOMM INCORPORATED
JP2010503081A | JAPANESE APPLICATIONS | 28-JAN-2010

37. **Method and apparatus of obtaining or providing search results using user-based biases**

To provide objective search results based on the [task] bias. Method, an apparatus, a processor, and a computer program product is provided in order to provide or obtain a solution [means] the search results. Method of providing search results includes conducting a search based on the query and that...

CURRENT ASSIGNEES: QUALCOMM INC
JP2013008371A | JAPANESE APPLICATIONS | 10-JAN-2013

38. **A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information**

A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information, the method comprising collecting a population of microblogs comprising microblog data, each microblog containing a limited number of characters;...

CURRENT ASSIGNEES: QATAR FNDN [+1]
WO2014005857A1 | WIPO APPLICATIONS | 09-JAN-2014

39. **Sentiment-based query processing system and method**

The present invention provides a sentiment-based inquiry processing system comprising: an index construction unit for dividing at least one document into at least one segment, extracting an attribute keyword indicating an attribute of an object of an opinion written in the segment and a sentiment...

CURRENT ASSIGNEES: UNIV KOREA RES & BUS FOUND
KR20140053717A | KOREAN APPLICATIONS | 08-MAY-2014

40. **Sentiment-based query processing system and method**

The present invention is divided into one or more segments (segment) of one or more documents, as described in the segment Watching extract keywords target (object)

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Manage Discover Optimize

New Query

Save Query

Export Results

Quick Downloads

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having attributive (aspect) appreciation of the property keyword and article writer for the property the [illegible]

CURRENT ASSIGNEES: [illegible]
KR10142354981 | KOREAN PATENTS | 01-AUG-2014

41. **Offline location-based consumer metrics using online signals**

A business monitoring system is described herein that brings together the previously separate worlds of social media and offline secret shopper and similar programs. With the business monitoring system, owners of brands are able to monitor the local voice of the customer to detect local and regional...

CURRENT ASSIGNEES: VALUEVINE INC [+1]
US9508082 | US PATENTS | 29-NOV-2016

42. **Information access with usage-driven metadata feedback**

In a method for displaying and capturing metadata of documents within result presentations in information access or search systems, a metadata server is used for storing a metadata associated with any searchable document and the end users are given the opportunity to view and edit metadata...

CURRENT ASSIGNEES: MICROSOFT INTL HLDG BV [+1]
US8135669 | US PATENTS | 13-MAR-2012

43. **Information access with usage-driven metadata feedback**

CURRENT ASSIGNEES: FAST SEARCH & TRANSFER ASA
WO2007043893A2 | WIPO APPLICATIONS | 19-APR-2007

44. **Producing sentiment-aware results from a search query**

A method, system, and computer program product for information retrieval and sentiment assessment. The method parses a sentiment-aware query to isolate one or more lexical terms to be included in a lexical retrieval of documents containing the lexical terms. The parsing of the query includes parsing...

CURRENT ASSIGNEES: ORACLE INTL CORP
US20150088894 | US APPLICATIONS | 26-MAR-2015

45. **Method and system for conducting an opinion search engine and a display thereof**

Embodiments of the present invention provide a system, Embodiments of the present invention are directed to methods, computer program products, computer systems for providing a computing search platform for conducting opinion searches over the Internet concerning aggregated social media electronic...

CURRENT ASSIGNEES: MOODWIRE INC
US20160162582 | US APPLICATIONS | 09-JUN-2016

46. **Intelligent product feedback analytics tool**

A method for improving the usability of product feedback data can begin with the receipt of product feedback search parameters by an intelligent product feedback analytics tool. The product feedback search parameters can represent a product or a group of products. Product feedback search results...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US8965897 | US PATENTS | 24-FEB-2015

47. **Monitoring social media for specific issues**

Systems and methods of the present invention provide for one or more server computers communicatively coupled to a network and configured to: monitor one or more social media accounts; identify a specific issue common to the social media account(s) (and possibly one or more recommended remedies for...

CURRENT ASSIGNEES: GO DADDY GROUP INC
US20160043913 | US APPLICATIONS | 11-FEB-2016

48. **Information Access With Usage-Driven Metadata Feedback**

In a method for displaying and capturing metadata of documents within result presentations in information access or search systems, a metadata server is used for storing a metadata associated with any searchable document and the end users are given the opportunity to view and edit metadata...

CURRENT ASSIGNEES: MICROSOFT INTL HLDG BV
US20080097985 | US APPLICATIONS | 24-APR-2008

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49. **System and method to determine social relevance of internet content**



Embodiments of the present invention provide systems and methods for determining ... The method according to one embodiment comprises selecting an item from the result set, measuring the amount of social participation of said item from social networks and conducting...

CURRENT ASSIGNEES: ENGINUITY SEARCH MEDIA
CA2838302A1 | CANADIAN APPLICATIONS | 06-JUL-2015

56. **Apparatus and method for developing complex queries of social media sources**

An apparatus, method and non-transitory computer readable medium for developing a query on a social media service are disclosed. For example, the apparatus includes a processor and a computer readable medium storing a plurality of instructions, which when executed by the processor, cause the...

CURRENT ASSIGNEES: XEROX CORP
US20160203218 | US APPLICATIONS | 14-JUL-2016

Show next: 50 | 100 | 250 | 500 | 1000 Results

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Manage | Discover | Map

STIC

New Query

Main Concept Text
search result query updated data monitor user fee...

Filter: Discover

Save Query

Views: Sort: Relevance Relevance Filter: None 0 Selected Documents Actions

Export Results

1 - 50 5,458,345 results 192,425 Results VIEW

Quick Downloads

1. Realtime popularity prediction for events and queries

A system, media, and method for realtime popularity prediction for event and queries are provided. The popularity prediction is made by a prediction engine that is coupled to a search engine, a crawler, and a sentiment component. The prediction engine determines a change in popularity for an event...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20160114954 | US APPLICATIONS | 06-MAY-2016

2. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085827 | US APPLICATIONS | 24-MAR-2016

3. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085823 | US APPLICATIONS | 24-MAR-2016

4. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085803 | US APPLICATIONS | 24-MAR-2016

5. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085806 | US APPLICATIONS | 24-MAR-2016

6. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085822 | US APPLICATIONS | 24-MAR-2016

7. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085821 | US APPLICATIONS | 24-MAR-2016

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8. Real-time and adaptive data mining

8. A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085819 | US APPLICATIONS | 24-MAR-2016

9. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085804 | US APPLICATIONS | 24-MAR-2016

10. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085818 | US APPLICATIONS | 24-MAR-2016

11. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085805 | US APPLICATIONS | 24-MAR-2016

12. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085825 | US APPLICATIONS | 24-MAR-2016

13. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20140040301 | US APPLICATIONS | 06-FEB-2014

14. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085826 | US APPLICATIONS | 24-MAR-2016

15. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085820 | US APPLICATIONS | 24-MAR-2016

16. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or

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more data sources, monitoring a specific data source selected from the one or more data

CURRENT ASSIGNEES: RULE 14
US20160085824 | US APPLICATIONS | 24-MAR-2016

17. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US9229977 | US PATENTS | 05-JAN-2016

18. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
EP3014414A2 | EUROPEAN APPLICATIONS | 04-MAY-2016

19. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
WO2014210184A2 | WIPO APPLICATIONS | 31-DEC-2014

20. **Personalization search engine**

Methods and apparatus provide for a personalization search engine that receives a search query from a first user and identifies multiple portions of indexed content---where each respective portion of indexed content has metadata that matches at least one characteristic of the search query. The...

CURRENT ASSIGNEES: PINK FLAMINGO SERIES 31 OF ALLIED SECURITY TRUST I
US8625753 | US PATENTS | 07-JAN-2014

21. **System and Method for Automatic Generation of Information-Rich Content from Multiple Microblogs, Each Microblog Containing Only Sparse Information**

A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information, the method comprising collecting a population of microblogs comprising microblog data, each microblog containing a limited number of characters;...

CURRENT ASSIGNEES: QATAR FND-N
US20150261773 | US APPLICATIONS | 17-SEP-2015

22. **Personalization search engine**

Methods and apparatus provide for a personalization search engine that receives a search query from a first user and identifies multiple portions of indexed content---where each respective portion of indexed content has metadata that matches at least one characteristic of the search query. The...

CURRENT ASSIGNEES: PINK FLAMINGO SERIES 31 OF ALLIED SECURITY TRUST I
US8260774 | US PATENTS | 04-SEP-2012

23. **A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information**

A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information, the method comprising collecting a population of microblogs comprising microblog data, each microblog containing a limited number of characters;...

CURRENT ASSIGNEES: QATAR FND-N
EP2859472A1 | EUROPEAN APPLICATIONS | 15-APR-2015

24. **A system, server and client computing devices for recipient profile electronic feedback aggregation and automated recipient profile feedback sentiment analysis**

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STIC

There is provided a server for recipient profile electronic feedback aggregation. The server is configured for receiving feedback submission interface for receiving feedback from a plurality of providers comprising an alphanumeric feedback profile ID input field configured for receiving a unique...

CURRENT ASSIGNEES: WITHIN REACH SOFTWARE PTY LTD
WO2016131108A1 | WIPO APPLICATIONS | 25-AUG-2016

25. **Information access with usage-driven metadata feedback**

CURRENT ASSIGNEES: FAST SEARCH & TRANSFER ASA
WO2007043893A2 | WIPO APPLICATIONS | 19-APR-2007

26. **Information access with usage-driven metadata feedback**

In a method for displaying and capturing metadata of documents within result presentations in information access or search systems, a metadata server is used for storing a metadata associated with any searchable document and the end users are given the opportunity to view and edit metadata...

CURRENT ASSIGNEES: MICROSOFT INTL HLDG BV [+1]
US8135669 | US PATENTS | 13-MAR-2012

27. **A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information**

A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information, the method comprising collecting a population of microblogs comprising microblog data, each microblog containing a limited number of characters;...

CURRENT ASSIGNEES: QATAR FNDN [+1]
WO2014005657A1 | WIPO APPLICATIONS | 09-JAN-2014

28. **Information Access With Usage-Driven Metadata Feedback**

In a method for displaying and capturing metadata of documents within result presentations in information access or search systems, a metadata server is used for storing a metadata associated with any searchable document and the end users are given the opportunity to view and edit metadata...

CURRENT ASSIGNEES: MICROSOFT INTL HLDG BV
US20080097985 | US APPLICATIONS | 24-APR-2008

29. **Offline location-based consumer metrics using online signals**

A business monitoring system is described herein that brings together the previously separate worlds of social media and offline secret shopper and similar programs. With the business monitoring system, owners of brands are able to monitor the local voice of the customer to detect local and regional...

CURRENT ASSIGNEES: VALUEVINE INC [+1]
US9508082 | US PATENTS | 29-NOV-2016

30. **System and method for topic based sentiment search and sharing across a network**

A computer implemented method of collecting, exchanging and displaying both real-time and historical sentiments on a topic comprises establishing a topic upon which a sentiment can be rendered; detecting and storing a sentiment on said topic and causing said sentiment to be displayed for others to...

CURRENT ASSIGNEES: VERTICAL AXIS INC
EP2487636A1 | EUROPEAN APPLICATIONS | 15-AUG-2012

31. **Real-time Monitoring of Public Sentiment**

The subject disclosure is directed towards a real-time or near real-time sentiment monitoring service. A set of rules such as keywords and data sources to crawl is provided to the monitoring service, which crawls the sources to obtain sentiment-related data for an entity, such as a corporation or...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20120323627 | US APPLICATIONS | 20-DEC-2012

32. **System and method for topic based sentiment search and sharing across a network**

A computer implemented method of collecting, exchanging and displaying both real-time and historical sentiments on a topic comprises establishing a topic upon which a sentiment can be rendered, detecting and storing a sentiment on said topic and causing said sentiment to be displayed for others to...

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CURRENT ASSIGNEES: VERITAS AXIS INC
Manage Visual Discovery Applications | 08-AUG-2012

35. **Structured updated status, requests, user data & programming based presenting & accessing of connections**

A method, system, device, network, platform and apparatus enabling users to send request data for connecting with other users of network(s); determining user(s) of network (s) based on request(s) data; and enabling requestor user(s) and determined user(s) of network(s) to connecting, communicating....

CURRENT ASSIGNEES: RATHOD YOGESH CHUNILAL
WO2015036817A1 | WIPO APPLICATIONS | 19-MAR-2015

34. **Watching a user'S online world**

The present invention provides methods and systems for use in assessing sentiment of users associated with one or more Web-based activities or communications of a user, which can include messaging associated with one or more social networking applications. Furthermore, information or services are...

CURRENT ASSIGNEES: YAHOO INC
US20110264531 | US APPLICATIONS | 27-OCT-2011

36. **Searching a user'S online world**

The present invention provides methods and systems for use in searching a user's online world, across independently provided applications including Web-based and desktop applications, which can include Web sites. Techniques are provided in which information is collected and indexed relating to...

CURRENT ASSIGNEES: YAHOO INC
US20110264525 | US APPLICATIONS | 27-OCT-2011

36. **Searching a user'S online world**

The present invention provides methods and systems for use in searching a user's online world, across independently provided applications including Web-based and desktop applications, which can include Web sites. Techniques are provided in which information is collected and indexed relating to...

CURRENT ASSIGNEES: YAHOO INC
WO2011139552A2 | WIPO APPLICATIONS | 10-NOV-2011

37. **Enable user to establish request data specific connections with other users for communication, participation and collaboration**

A methods, systems, device, network, platform and apparatus for enabling user(s) to connect contextually with any other users of network(s) based on matching user created and/or dynamic & automatic generated request data and/or user data with user request (s) and/or user data of other users of...

CURRENT ASSIGNEES: RATHOD YOGESH CHUNILAL
WO2015025189A1 | WIPO APPLICATIONS | 26-FEB-2015

38. **Structured updated status, requests, user data & programming based presenting & accessing of connections or connectable users or entities and/or link(s)**

A methods, systems, device, network, platform and apparatus for enabling user to post structured updated status and/or requests based on inputting & selecting pre-created or updated or collaboratively updated generalized or standardized parts of structured updated status and/or requests including...

CURRENT ASSIGNEES: RATHOD YOGESH CHUNILAL
US20160255139 | US APPLICATIONS | 01-SEP-2016

39. **Enable user to establish request data specific connections with other users of network(s) for communication, participation & collaboration**

A methods, systems, device, network, platform and apparatus for enabling user(s) to connect contextually with any other users of network(s) based on matching user created and/or dynamic & automatic generated request data and/or user data with user request (s) and/or user data of other users of...

CURRENT ASSIGNEES: RATHOD YOGESH
US20160132608 | US APPLICATIONS | 12-MAY-2016

40. **Monitoring social media for specific issues**

Systems and methods of the present invention provide for one or more server computers communicatively coupled to a network and configured to: monitor one or more social

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media accounts; identify a specific issue common to the social media account(s) (and optionally one or more ... remedies for...

CURRENT ASSIGNEES: GD DADDY GROUP INC
US20160043913 | US APPLICATIONS | 11-FEB-2016

41. **Method and device for dynamically updating a list of search results**

The invention comprises a computer implemented method for dynamically updating a list of search results, comprising the steps: Receiving a first search query by a user; Executing the search query; Obtaining a list of search results, based on the search query; - Sending, at least partially, the list...

CURRENT ASSIGNEES: VON HELGERS PHILIPP
WO2011117328A1 | WIPO APPLICATIONS | 29-SEP-2011

42. **Computer system and method for analyzing data sets and providing personalized recommendations**

Embodiments of the invention relate to a computer-implemented method and system for providing personalized recommendations for a target user based at least on stored data about the target user. The method comprises obtaining a plurality of feedback data from a plurality of users, wherein the...

CURRENT ASSIGNEES: OPENTABLE INC
US9396492 | US PATENTS | 19-JUL-2016

43. **Computer system and method for analyzing data sets and providing personalized recommendations**

Embodiments of the invention relate to a computer-implemented method and system for providing personalized recommendations for a target user based at least on stored data about the target user. The method comprises obtaining a plurality of feedback data from a plurality of users, wherein the...

CURRENT ASSIGNEES: OPENTABLE INC
US20120095863 | US APPLICATIONS | 19-APR-2012

44. **Method and system relating to sentiment analysis of electronic content**

Users receive information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. Prior art tools automatically processing content to assign sentiment to the content are ineffective as essential aspects such as context are not considered. Embodiments of the...

CURRENT ASSIGNEES: WHYZ TECH LTD
US20130311485 | US APPLICATIONS | 21-NOV-2013

45. **A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information**

From a plurality of micro bo for automatically generating the information is rich the content of the system and method of each micro bo only contains sparse information the method comprises gathering containing micro bo data microbo group each micro bo comprises a limited number of characters of;...

CURRENT ASSIGNEES: QATAR FNDN
CN104685495A | CHINESE APPLICATIONS | 03-JUN-2015

46. **Method and system for a search engine for user generated content (Ugc)**

A method and system for a search engine for user generated content have been disclosed. According to one embodiment, a computer implemented method comprises receiving a search request from a client, the search request directed to user generated content. Relevant user generated content is retrieved,...

CURRENT ASSIGNEES: TIP TOP TECH INC
US20100306192 | US APPLICATIONS | 02-DEC-2010

47. **A computer system and method for analyzing data sets and providing personalized recommendations**

Method and system for providing personalized recommendations for a target user based at least on stored data about the target user. The method comprises obtaining a plurality of feedback data from a plurality of users, wherein the feedback data comprises an indication of a media object, a response...

CURRENT ASSIGNEES: NESS COMPUTING INC
WO2012051583A1 | WIPO APPLICATIONS | 19-APR-2012

48. **Computer system and method for analyzing data sets and generating personalized recommendations**

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Embodiments of the invention relate to a computer-implemented method and system for generating personalized recommendations for a target user based at least on stored data about the target user. The method comprises obtaining, at the server computer, data from a plurality of data sources, including...

CURRENT ASSIGNEES: OPENTABLE INC
US20120095862 | US APPLICATIONS | 19-APR-2012

49. **Data mining to determine online user responses to broadcast messages**

In a networked system, a method and apparatus for measuring advertising effectiveness involves broadcasting an advertisement at a broadcast time, monitoring at least one social network or other online forum following the broadcast time, filtering social network traffic to identify messages, search...

CURRENT ASSIGNEES: DISNEY ENTPR INC
EP2453402A1 | EUROPEAN APPLICATIONS | 16-MAY-2012

50. **A computer system and method for analyzing data sets and generating personalized recommendations**

Generation of personalized recommendations for a target user based at least on stored data about the target user. The personalized recommendations system then merges the entity data in the entity database from the plurality of data sources and maps the entity data to a corresponding entity. The same...

CURRENT ASSIGNEES: NESS COMPUTING INC
WO2012051586A1 | WIPO APPLICATIONS | 19-APR-2012

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Manage | Discover | Map

STIC

New Query

Main Concept Text
search result query updated dat...
1 modifier

Filter: Discover

Save Query

Export Results

Views: Sort: Relevance Relevance Filter: None 0 Selected Documents Actions

Quick Downloads

1 - 50 6,305,872 results 180,365 Results VIEW

COLLAPSE MENU

1. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085806 | US APPLICATIONS | 24-MAR-2016

2. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085819 | US APPLICATIONS | 24-MAR-2016

3. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085823 | US APPLICATIONS | 24-MAR-2016

4. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085803 | US APPLICATIONS | 24-MAR-2016

5. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085822 | US APPLICATIONS | 24-MAR-2016

6. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085821 | US APPLICATIONS | 24-MAR-2016

7. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085804 | US APPLICATIONS | 24-MAR-2016

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8. Real-time and adaptive data mining

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8. A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

CURRENT ASSIGNEES: RULE 14
US20160085818 | US APPLICATIONS | 24-MAR-2016

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CURRENT ASSIGNEES: RULE 14
US20160085805 | US APPLICATIONS | 24-MAR-2016

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CURRENT ASSIGNEES: RULE 14
US20160085825 | US APPLICATIONS | 24-MAR-2016

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CURRENT ASSIGNEES: RULE 14
US20160085826 | US APPLICATIONS | 24-MAR-2016

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CURRENT ASSIGNEES: RULE 14
US20160085824 | US APPLICATIONS | 24-MAR-2016

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CURRENT ASSIGNEES: RULE 14
US20160085820 | US APPLICATIONS | 24-MAR-2016

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CURRENT ASSIGNEES: RULE 14
US9229977 | US PATENTS | 05-JAN-2016

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CURRENT ASSIGNEES: RULE 14
US20140040361 | US APPLICATIONS | 06-FEB-2014

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CURRENT ASSIGNEES: S.R.L. [+]
EP3014414A2 | EUROPEAN APPLICATIONS | 04-MAY-2016

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CURRENT ASSIGNEES: PULE 14
WO2014210184A2 | WIPO APPLICATIONS | 31-DEC-2014

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CURRENT ASSIGNEES: TAYKEY LTD
US20110238674 | US APPLICATIONS | 29-SEP-2011

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WO2011119410A2 | WIPO APPLICATIONS | 29-SEP-2011

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CURRENT ASSIGNEES: TAYKEY LTD
US8930377 | US PATENTS | 06-JAN-2015

21. **Method and system for conducting an opinion search engine and a display thereof**

Embodiments of the present invention provide a system, Embodiments of the present invention are directed to methods, computer program products, computer systems for providing a computing search platform for conducting opinion searches over the Internet concerning aggregated social media electronic...

CURRENT ASSIGNEES: MOODWIRE INC
US20160162582 | US APPLICATIONS | 09-JUN-2016

22. **Systems and methods for facilitating open source intelligence gathering**

Systems and methods (e.g., utilities) for use in providing automated, lightweight collection of online, open source data which may be content-based to reduce website source bias. In one aspect, a utility is disclosed for use in extracting content of interest from at least one website or other online...

CURRENT ASSIGNEES: GEN ELEC CO [+1]
US20110225115 | US APPLICATIONS | 15-SEP-2011

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CURRENT ASSIGNEES: QATAR FNDN
US20150261773 | US APPLICATIONS | 17-SEP-2015

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CURRENT ASSIGNEES: CHOWDHURY ABDUR [+3]
US20080154883 | US APPLICATIONS | 26-JUN-2008

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CURRENT ASSIGNEES: LOCKHEED MARTIN CORP
US8935197 | US PATENTS | 13-JAN-2015

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CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20100114954 | US APPLICATIONS | 06-MAY-2010

27. **Real-time Monitoring of Public Sentiment**

The subject disclosure is directed towards a real-time or near real-time sentiment monitoring service. A set of rules such as keywords and data sources to crawl is provided to the monitoring service, which crawls the sources to obtain sentiment-related data for an entity, such as a corporation or...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20120323627 | US APPLICATIONS | 20-DEC-2012

28. **Information access with usage-driven metadata feedback**

CURRENT ASSIGNEES: FAST SEARCH & TRANSFER ASA
WO2007043893A2 | WIPO APPLICATIONS | 19-APR-2007

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CURRENT ASSIGNEES: QATAR FNDN
EP2859472A1 | EUROPEAN APPLICATIONS | 15-APR-2015

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CURRENT ASSIGNEES: LOCKHEED MARTIN CORP
US20140089289 | US APPLICATIONS | 27-MAR-2014

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CURRENT ASSIGNEES: CHOWDHURY ABDUR [+3]
US20100050118 | US APPLICATIONS | 25-FEB-2010

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CURRENT ASSIGNEES: GEN ELEC CO [+1]

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US8620888 | US PATENTS | 31-DEC-2013

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CURRENT ASSIGNEES: LOCKHEED MARTIN CORP
US20150121265 | US APPLICATIONS | 30-APR-2015

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CURRENT ASSIGNEES: CHOWDHURY ABDUR [+3]
US9032421 | US PATENTS | 28-APR-2015

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CURRENT ASSIGNEES: TWITTER INC
US8862591 | US PATENTS | 14-OCT-2014

36. **Method and system relating to sentiment analysis of electronic content**

Users receive information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. Prior art tools automatically processing content to assign sentiment to the content are ineffective as essential aspects such as context are not considered. Embodiments of the...

CURRENT ASSIGNEES: WHYZ TECH LTD
US20130311485 | US APPLICATIONS | 21-NOV-2013

37. **Systems and methods for facilitating open source intelligence gathering**

Systems and methods (e.g., utilities) for use in providing automated, lightweight collection of online, open source data which may be content-based to reduce website source bias. In one aspect, a utility is disclosed for use in extracting content of interest from at least one website or other online...

CURRENT ASSIGNEES: LOCKHEED MARTIN CORP
US9348934 | US PATENTS | 24-MAY-2016

38. **Information access with usage-driven metadata feedback**

In a method for displaying and capturing metadata of documents within result presentations in information access or search systems, a metadata server is used for storing a metadata associated with any searchable document and the end users are given the opportunity to view and edit metadata...

CURRENT ASSIGNEES: MICROSOFT INTL HLDG BV [+1]
US8135669 | US PATENTS | 13-MAR-2012

39. **System and method for evaluating sentiment**

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CURRENT ASSIGNEES: TWITTER INC
US20150331563 | US APPLICATIONS | 19-NOV-2015

40. **A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information**

A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information, the method comprising collecting a population of microblogs comprising microblog data, each microblog containing a limited number of characters;...

CURRENT ASSIGNEES: QATAR FNDN [+1]
WO2014005857A1 | WIPO APPLICATIONS | 09-JAN-2014

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41. Method and system for a search engine for user generated content

A method and system for a search engine for user generated content have been disclosed. According to one embodiment, a computer implemented method comprises receiving a search request from a client, the search request directed to user generated content. Relevant user generated content is retrieved,...

CURRENT ASSIGNEES: TIP TOP TECH INC
US9235646 | US PATENTS | 12-JAN-2016

42. Information Access With Usage-Driven Metadata Feedback

In a method for displaying and capturing metadata of documents within result presentations in information access or search systems, a metadata server is used for storing a metadata associated with any searchable document and the end users are given the opportunity to view and edit metadata...

CURRENT ASSIGNEES: MICROSOFT INTL HLDGS BV
US20080097985 | US APPLICATIONS | 24-APR-2008

43. System and method for retrieving and presenting concept centric information in social media networks

The embodiments herein provide a system and method for retrieving and presenting concept centric information in social media network that allows a user to search, read, express, and debate on opinions on a particular concept. The system comprises an input module for receiving an input query, a...

CURRENT ASSIGNEES: VEOOZ LABS PVT LTD
US20140337328 | US APPLICATIONS | 13-NOV-2014

44. Method and system relating to sentiment analysis of electronic content

Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further, a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...

CURRENT ASSIGNEES: WHYZ TECH LTD
WO2013170344A1 | WIPO APPLICATIONS | 21-NOV-2013

45. Systems and methods for social media data mining

Systems and methods are provided to collect, analyze and report social media aggregated from a plurality of social media websites. Social media is retrieved from social media websites, analyzed for sentiment, and categorized by topic and user demographics. The data is then archived in a data...

CURRENT ASSIGNEES: AT & T IP I LP
US9262517 | US PATENTS | 16-FEB-2016

46. Systems and methods for facilitating the gathering of open source intelligence

Systems and methods (e.g., utilities) for use in providing automated, lightweight collection of online, open source data which may be content-based to reduce website source bias. In one aspect, a utility is disclosed for use in extracting content of interest from at least one website or other online...

CURRENT ASSIGNEES: LOCKHEED MARTIN CORP
US20140181125 | US APPLICATIONS | 26-JUN-2014

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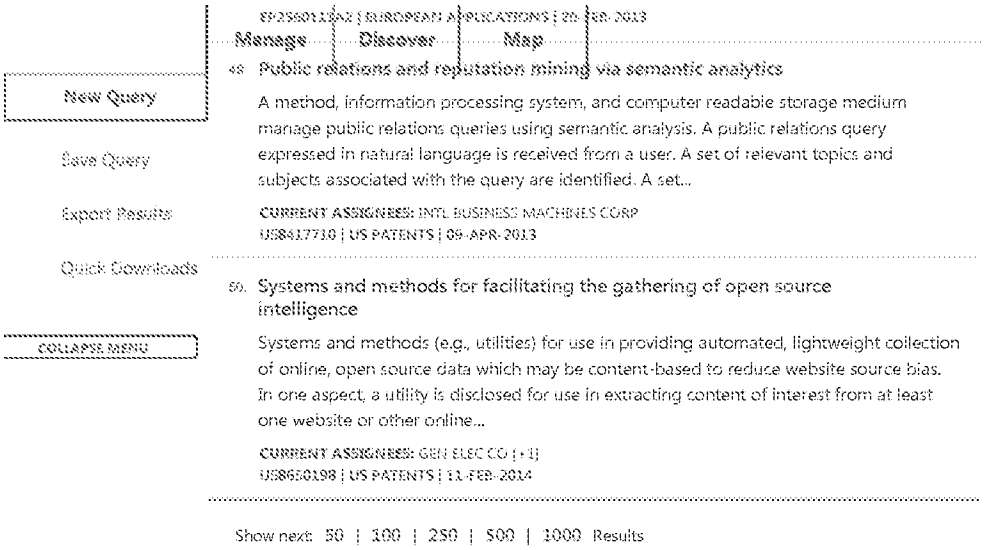
CURRENT ASSIGNEES: GEN ELEC CO [+1]
US20130046771 | US APPLICATIONS | 21-FEB-2013

48. Systems and methods for facilitating the gathering of open source intelligence

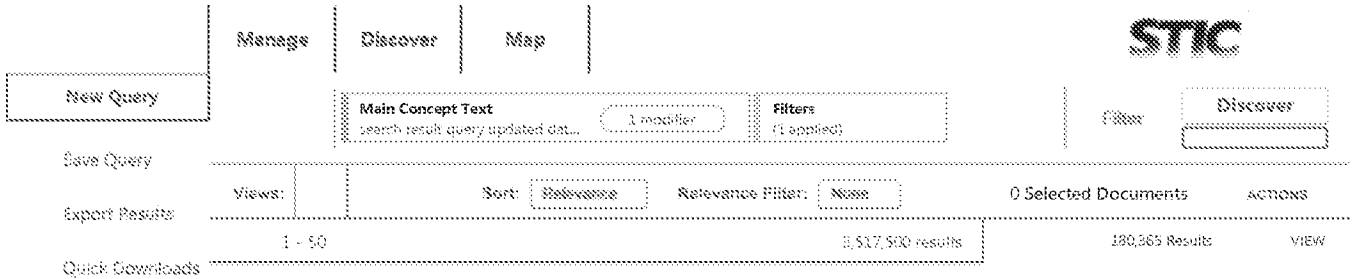
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CURRENT ASSIGNEES: LOCKHEED CORP [+1]

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1. **Real-time and adaptive data mining**

   A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

   CURRENT ASSIGNEES: RULE 14
   US20160085803 | US APPLICATIONS | 24-MAR-2016

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   CURRENT ASSIGNEES: RULE 14
   US20160085819 | US APPLICATIONS | 24-MAR-2016

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   CURRENT ASSIGNEES: RULE 14
   US20160085823 | US APPLICATIONS | 24-MAR-2016

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   CURRENT ASSIGNEES: RULE 14
   US20160085806 | US APPLICATIONS | 24-MAR-2016

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   CURRENT ASSIGNEES: RULE 14
   US20160085822 | US APPLICATIONS | 24-MAR-2016

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   CURRENT ASSIGNEES: RULE 14
   US20160085821 | US APPLICATIONS | 24-MAR-2016

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CURRENT ASSIGNEES: RULE 14
US20160085804 | US APPLICATIONS | 24-MAR-2016

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CURRENT ASSIGNEES: RULE 14
US20160085826 | US APPLICATIONS | 24-MAR-2016

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CURRENT ASSIGNEES: RULE 14
US20160085824 | US APPLICATIONS | 24-MAR-2016

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CURRENT ASSIGNEES: RULE 14
US9229977 | US PATENTS | 05-JAN-2016

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CURRENT ASSIGNEES: S.R.L. [+]
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CURRENT ASSIGNEES: CHOWDHURY ABDUR [+3]
US20080154883 | US APPLICATIONS | 26-JUN-2008

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CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20120323627 | US APPLICATIONS | 20-DEC-2012

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CURRENT ASSIGNEES: QATAR FNDN
EP2859472A1 | EUROPEAN APPLICATIONS | 15-APR-2015

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CURRENT ASSIGNEES: LOCKHEED MARTIN CORP
US20140089289 | US APPLICATIONS | 27-MAR-2014

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CURRENT ASSIGNEES: CHOWDHURY ABDUR [+2]
US20100050118 | US APPLICATIONS | 25-FEB-2010

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CURRENT ASSIGNEES: GEN ELECTRIC CO [+1]
US8620849 | US PATENTS | 31-DEC-2013

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CURRENT ASSIGNEES: LOCKHEED MARTIN CORP

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33. System and method for evaluating sentiment

An example system and method elicits reviews and opinions from users via an online system or a web crawl. Opinions on topics are processed in real time to determine orientation. Each topic is analyzed sentence by sentence to find a central tendency of user orientation toward a given topic. Automatic...

CURRENT ASSIGNEES: CHOWDHURY ABDUR [+3]
US9092421 | US PATENTS | 28-JUL-2015

34. System and method for evaluating sentiment

An example system and method elicits reviews and opinions from users via an online system or a web crawl. Opinions on topics are processed in real time to determine orientation. Each topic is analyzed sentence by sentence to find a central tendency of user orientation toward a given topic. Automatic...

CURRENT ASSIGNEES: TWITTER INC
US8862591 | US PATENTS | 14-OCT-2014

35. Method and system relating to sentiment analysis of electronic content

Users receive information which must be filtered, processed, analysed, reviewed, consolidated and distributed or acted upon. Prior art tools automatically processing content to assign sentiment to the content are ineffective as essential aspects such as context are not considered. Embodiments of the...

CURRENT ASSIGNEES: WHYZ TECH LTD
US20130311485 | US APPLICATIONS | 21-NOV-2013

36. Systems and methods for facilitating open source intelligence gathering

Systems and methods (e.g., utilities) for use in providing automated, lightweight collection of online, open source data which may be content-based to reduce website source bias. In one aspect, a utility is disclosed for use in extracting content of interest from at least one website or other online...

CURRENT ASSIGNEES: LOCKHEED MARTIN CORP
US9349934 | US PATENTS | 24-MAY-2016

37. Information access with usage-driven metadata feedback

In a method for displaying and capturing metadata of documents within result presentations in information access or search systems, a metadata server is used for storing a metadata associated with any searchable document and the end users are given the opportunity to view and edit metadata...

CURRENT ASSIGNEES: MICROSOFT INTL HLDG BV [+1]
US8135669 | US PATENTS | 13-MAR-2012

38. System and method for evaluating sentiment

An example system and method elicits reviews and opinions from users via an online system or a web crawl. Opinions on topics are processed in real time to determine orientation. Each topic is analyzed sentence by sentence to find a central tendency of user orientation toward a given topic. Automatic...

CURRENT ASSIGNEES: TWITTER INC
US20150331563 | US APPLICATIONS | 19-NOV-2015

39. A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information

A system and method for automatic generation of information-rich content from multiple microblogs, each microblog containing only sparse information, the method comprising collecting a population of microblogs comprising microblog data, each microblog containing a limited number of characters,...

CURRENT ASSIGNEES: QATAR FNDN [+1]
WO2014005657A1 | WIPO APPLICATIONS | 09-JAN-2014

40. Method and system for a search engine for user generated content (UGC)

A method and system for a search engine for user generated content have been disclosed. According to one embodiment, a computer implemented method comprises receiving a search request from a client, the search request directed to user generated content. Relevant user generated content is retrieved,...

CURRENT ASSIGNEES: TIP TOP TECH INC

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US9235646 | US PATENTS | 12-JAN-2016

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44. Information Access With Usage-Driven Metadata Feedback

In a method for displaying and capturing metadata of documents within result presentations in information access or search systems, a metadata server is used for storing a metadata associated with any searchable document and the end users are given the opportunity to view and edit metadata...

CURRENT ASSIGNEES: MICROSOFT INTL HLDG BV
US20080097985 | US APPLICATIONS | 24-APR-2008

42. Method and system relating to sentiment analysis of electronic content

Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further, a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...

CURRENT ASSIGNEES: WHYZ TECH LTD
WO2013170344A1 | WIPO APPLICATIONS | 21-NOV-2013

43. Systems and methods for social media data mining

Systems and methods are provided to collect, analyze and report social media aggregated from a plurality of social media websites. Social media is retrieved from social media websites, analyzed for sentiment, and categorized by topic and user demographics. The data is then archived in a data...

CURRENT ASSIGNEES: AT & T IP I LP
US9262537 | US PATENTS | 16-FEB-2016

44. Systems and methods for facilitating the gathering of open source intelligence

Systems and methods (e.g., utilities) for use in providing automated, lightweight collection of online, open source data which may be content-based to reduce website source bias. In one aspect, a utility is disclosed for use in extracting content of interest from at least one website or other online...

CURRENT ASSIGNEES: LOCKHEED MARTIN CORP
US20140181125 | US APPLICATIONS | 26-JUN-2014

45. Systems and methods for facilitating the gathering of open source intelligence

Systems and methods (e.g., utilities) for use in providing automated, lightweight collection of online, open source data which may be content-based to reduce website source bias. In one aspect, a utility is disclosed for use in extracting content of interest from at least one website or other online...

CURRENT ASSIGNEES: GEN ELEC CO [+1]
US20130046771 | US APPLICATIONS | 21-FEB-2013

46. Systems and methods for facilitating the gathering of open source intelligence

Systems and methods (e.g., utilities) for use in providing automated, lightweight collection of online, open source data which may be content-based to reduce website source bias. In one aspect, a utility is disclosed for use in extracting content of interest from at least one website or other online...

CURRENT ASSIGNEES: LOCKHEED CORP [+1]
EP2560111A2 | EUROPEAN APPLICATIONS | 20-FEB-2013

47. Public relations and reputation mining via semantic analytics

A method, information processing system, and computer readable storage medium manage public relations queries using semantic analysis. A public relations query expressed in natural language is received from a user. A set of relevant topics and subjects associated with the query are identified. A set...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US8417710 | US PATENTS | 09-APR-2013

48. Systems and methods for facilitating the gathering of open source intelligence

Systems and methods (e.g., utilities) for use in providing automated, lightweight collection of online, open source data which may be content-based to reduce website source bias. In one aspect, a utility is disclosed for use in extracting content of interest from at least one website or other online...

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CURRENT ASSIGNEES: CEN [illegible]
Manage | Discover | 21-FEB-[illegible]

49. **Method for analyzing sentiment trends based on term taxonomies of user generated content**

A method for generating a trend report for a non-sentiment phrase. The method comprises generating a plurality of term taxonomies between non-sentiment phrases and sentiment phrases; storing the plurality of term taxonomies in a database; performing periodically at least a statistical analysis...

CURRENT ASSIGNEES: TAYKEY LTD
US20110302006 | US APPLICATIONS | 08-DEC-2011

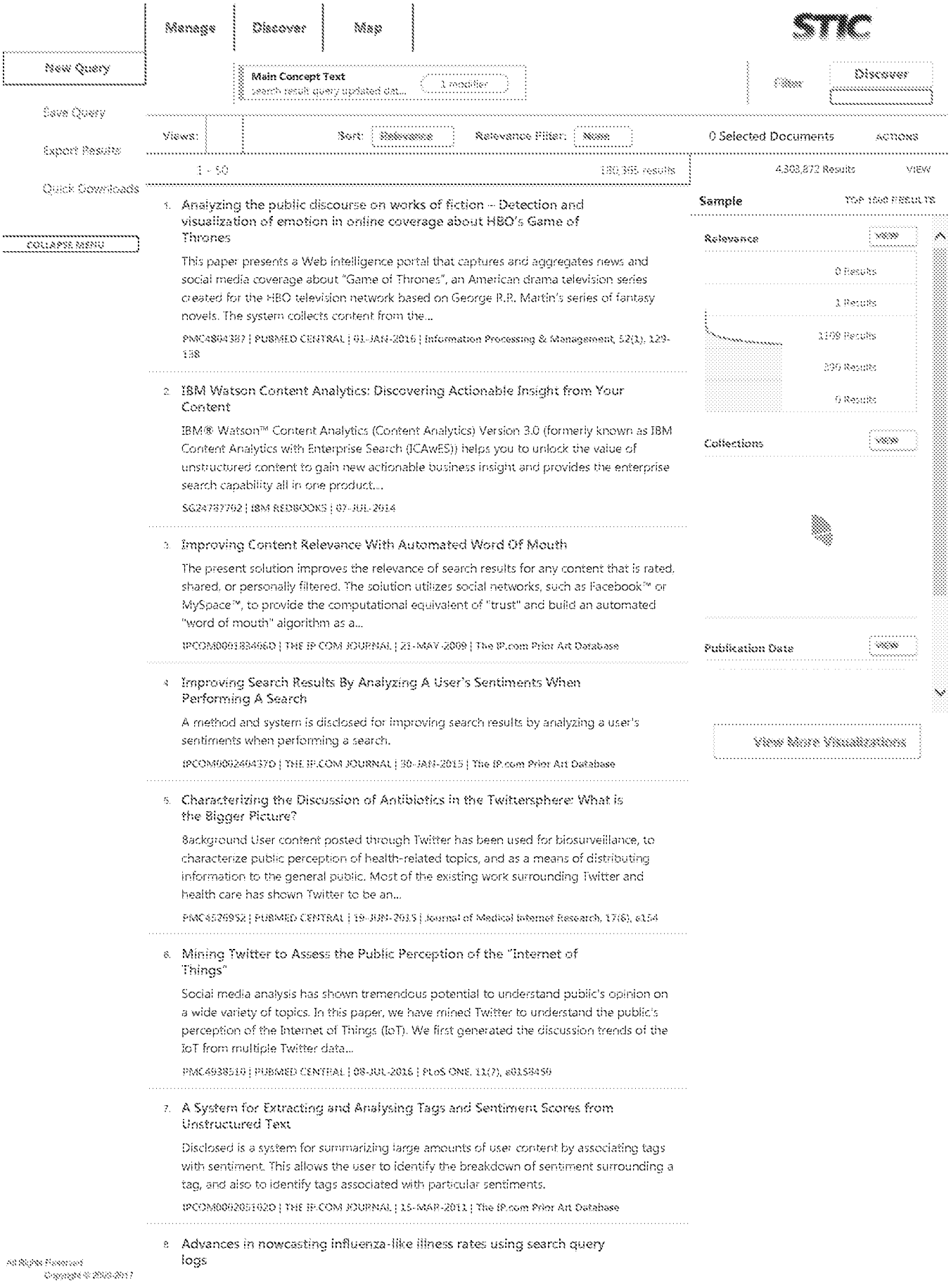
50. **Method and system relating to sentiment analysis of electronic content**

Embodiments of the invention provide automatic contextual based sentiment classification of content in terms of both sentiments expressed and their intensity. Further, a content set is analysed to rapidly establish an "at-a-glance" type assessment of the key topics/themes present within the content...

CURRENT ASSIGNEES: WHYZ TECH LTD
CA2865186C | CANADIAN PATENTS | 29-OCT-2015

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search result query updated dat...
1 modifier
Filter
Discover
Views:
Sort:
Relevance
Relevance Filter:
None
0 Selected Documents
ACTIONS
1 - 50
180,395 results
4,303,872 Results
VIEW
1. Analyzing the public discourse on works of fiction -- Detection and visualization of emotion in online coverage about HBO's Game of Thrones
This paper presents a Web intelligence portal that captures and aggregates news and social media coverage about "Game of Thrones", an American drama television series created for the HBO television network based on George R.R. Martin's series of fantasy novels. The system collects content from the...
PMC4804387 | PUBMED CENTRAL | 01-JAN-2016 | Information Processing & Management, 52(1), 129-138
2. IBM Watson Content Analytics: Discovering Actionable Insight from Your Content
IBM® Watson™ Content Analytics (Content Analytics) Version 3.0 (formerly known as IBM Content Analytics with Enterprise Search (ICAwES)) helps you to unlock the value of unstructured content to gain new actionable business insight and provides the enterprise search capability all in one product....
SG247787?2 | IBM REDBOOKS | 07-JUL-2014
3. Improving Content Relevance With Automated Word Of Mouth
The present solution improves the relevance of search results for any content that is rated, shared, or personally filtered. The solution utilizes social networks, such as Facebook™ or MySpace™, to provide the computational equivalent of "trust" and build an automated "word of mouth" algorithm as a...
IPCOM000183466D | THE IP.COM JOURNAL | 21-MAY-2009 | The IP.com Prior Art Database
4. Improving Search Results By Analyzing A User's Sentiments When Performing A Search
A method and system is disclosed for improving search results by analyzing a user's sentiments when performing a search.
IPCOM000240437D | THE IP.COM JOURNAL | 30-JAN-2015 | The IP.com Prior Art Database
5. Characterizing the Discussion of Antibiotics in the Twittersphere: What is the Bigger Picture?
Background User content posted through Twitter has been used for biosurveillance, to characterize public perception of health-related topics, and as a means of distributing information to the general public. Most of the existing work surrounding Twitter and health care has shown Twitter to be an...
PMC4526952 | PUBMED CENTRAL | 19-JUN-2015 | Journal of Medical Internet Research, 17(6), e154
6. Mining Twitter to Assess the Public Perception of the "Internet of Things"
Social media analysis has shown tremendous potential to understand public's opinion on a wide variety of topics. In this paper, we have mined Twitter to understand the public's perception of the Internet of Things (IoT). We first generated the discussion trends of the IoT from multiple Twitter data...
PMC4938510 | PUBMED CENTRAL | 08-JUL-2016 | PLoS ONE, 11(7), e0158450
7. A System for Extracting and Analysing Tags and Sentiment Scores from Unstructured Text
Disclosed is a system for summarizing large amounts of user content by associating tags with sentiment. This allows the user to identify the breakdown of sentiment surrounding a tag, and also to identify tags associated with particular sentiments.
IPCOM000205162D | THE IP.COM JOURNAL | 15-MAR-2011 | The IP.com Prior Art Database
8. Advances in nowcasting influenza-like illness rates using search query logs
Sample
TOP 1000 RESULTS
Relevance
VIEW
0 Results
1 Results
3109 Results
390 Results
0 Results
Collections
VIEW
Publication Date
VIEW
View More Visualizations
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User-generated content can assist epidemiological surveillance in the early detection and monitoring of infectious diseases, such as influenza. Google Flu Trends embodies the first public platform for transforming search queries to indications about the current state of flu in various...

PMC4522652 | PUBMED CENTRAL | 03-AUG-2015 | Scientific Reports, 5, 12760

9. **Analysing Twitter and web queries for flu trend prediction**

Background Social media platforms encourage people to share diverse aspects of their daily life. Among these, shared health related information might be used to infer health status and incidence rates for specific conditions or symptoms. In this work, we present an infodemiology study that evaluates...

PMC4108831 | PUBMED CENTRAL | 07-MAY-2014 | Theoretical Biology & Medical Modelling, 11(Suppl 1), S6

10. **Talking about Climate Change and Global Warming**

The increasing prevalence of social networks provides researchers greater opportunities to evaluate and assess changes in public opinion and public sentiment towards issues of social consequence. Using trend and sentiment analysis is one method whereby researchers can identify changes in public...

PMC4587979 | PUBMED CENTRAL | 29-SEP-2015 | PLoS ONE, 10(9), e0138996

11. **Method to Capture the Subject/Discussion Topic for a New Meeting Using Input from Historical Meeting Corpus using Cognitive Analytics**

Disclosed are a method and system to use cognitive analytics on the input from historical meeting corpus to capture the subject/discussion topic for a new meeting. The solution provides an organization a centralized way of aggregating and analyzing information from across the Lines of Business...

IPCOM000248626D | THE IP.COM JOURNAL | 22-DEC-2016 | The IP.com Prior Art Database

12. **A system and method to improve sentiment analysis using socially-contributed dictionaries**

Due to the vertiginous evolution of spoken languages used on Internet, the accuracy of a Sentiment Analysis (SA) system can easily degradate over time if its knowledge base of terms is not updated. This article describes a sentiment analysis system and method that leverages social-contributed...

IPCOM000246829D | THE IP.COM JOURNAL | 05-JUL-2016 | The IP.com Prior Art Database

13. **Query expansion based on the attention centric content**

Disclosed is a method for enhancing QA systems performance by identifying focus and attention areas of the user in the presented content using eye tracker data analyzer. Method analyzes focus area content in the context of the current search and generates query extensions to enhance the search...

IPCOM000246226D | THE IP.COM JOURNAL | 17-MAY-2016 | The IP.com Prior Art Database

14. **System and method to enhance search relevance through analyzing user's searching context**

Disclosed is a system and method which can enhance search relevance by analyzing user's searching context. The method takes advantage of the relationships among searching context and find a reference answer for current query based on the context, and then leverages the reference answer to enhance...

IPCOM000209397D | THE IP.COM JOURNAL | 03-AUG-2011 | The IP.com Prior Art Database

15. **Content-Based Discovery for Web Map Service using Support Vector Machine and User Relevance Feedback**

Many discovery methods for geographic information services have been proposed. There are approaches for finding and matching geographic information services, methods for constructing geographic information service classification schemes, and automatic geographic information discovery. Overall, the...

PMC5115697 | PUBMED CENTRAL | 18-NOV-2016 | PLoS ONE, 11(11), e0166098

16. **Virtual World Currency Value Fluctuation Prediction System Based on User Sentiment Analysis**

In this paper, we present a method for predicting the value of virtual currencies used in virtual gaming environments that support multiple users, such as massively multiplayer online role-playing games (MMORPGs). Predicting virtual currency values in a virtual gaming environment has rarely been...

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PMC4524693 | PUBMED CENTRAL | 04-AUG-2015 | PLoS ONE, 10(8), e0132944

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17. **Improving Search engine results through user feedback**

Disclosed is a method to improve the quality of results that a search engine generates in response to a user query, using metrics based upon prior usage by other users. Currently when a user searches for a phrase or word on most search engines, the user doing the search cannot easily determine prior...

IPCOM000015801D | IBM TDB ARCHIVE | 25-JUN-2002 | IBM Technical Disclosure Bulletin

18. **A Method and System for Optimizing Vertical Search Results based on User Feedback**

A method and system for optimizing vertical search results based on user feedback is disclosed. The method and system utilizes the user feedback to identify Vertical Search Engines to be queried and to sort and present the results obtained from the queried VSEs.

IPCOM000220230D | THE IP.COM JOURNAL | 26-JUL-2012 | The IP.com Prior Art Database

19. **Two-step approach to supervised and unsupervised learning for grouping of search-results.**

This invention is a a two-step approach to search-result grouping. When new results are generated, we propose integrating the following runtime steps in the query processing pipeline. 1. Categorize each individual result in a result set using categories from the existing Taxonomy using a statistical...

IPCOM000195810D | THE IP.COM JOURNAL | 18-MAY-2010 | The IP.com Prior Art Database

20. **Development and tuning of an original search engine for patent libraries in medicinal chemistry**

Background The large increase in the size of patent collections has led to the need of efficient search strategies. But the development of advanced text-mining applications dedicated to patents of the biomedical field remains rare, in particular to address the needs of the pharmaceutical & biotech...

PMC4015144 | PUBMED CENTRAL | 10-JAN-2014 | BMC Bioinformatics, 15(Suppl 1), S15

21. **Method of Relevance Computing based on Feedback Sensitive Classes for search engine**

It is a problem that the results returned by the search engine are always numerous and not quite related sometimes. we propose a new solution for search engine and search result presentation. This solution takes into consideration of the two key points: class space and feedbacks. In the new...

IPCOM000179689D | THE IP.COM JOURNAL | 23-FEB-2009 | The IP.com Prior Art Database

22. **A system for adwords recommendation based on hot spotness**

In internet marketing, search advertising is a method of placing online advertisements on web pages that show results from search engine queries. Search advertisements are targeted to match keywords entered on search engine. The targeting ability has contributed to the attractiveness of search...

IPCOM000243742D | THE IP.COM JOURNAL | 16-OCT-2015 | The IP.com Prior Art Database

23. **Personalized online information search and visualization**

Background The rapid growth of online publications such as the Medline and other sources raises the questions how to get the relevant information efficiently. It is important, for a bench scientist, e.g., to monitor related publications constantly. It is also important, for a clinician, e.g., to...

PMC1079857 | PUBMED CENTRAL | 14-MAR-2005 | BMC Medical Informatics and Decision Making, 5, 6

24. **Auditory Status of End-User Query Outcomes**

Disclosed is a system for monitoring information retrieval systems using ambient auditory alerts. Specific sounds will change depending on the magnitude, general sentiment (positive or negative), and type of event.

IPCOM000245383D | THE IP.COM JOURNAL | 17-FEB-2016 | The IP.com Prior Art Database

25. **Method and System for using Commercial Intent and Relevance in Online Advertising**

A method and system for using commercial intent and relevance in online advertising is disclosed. Commercial intent is captured by modeling users' intents based on search queries. The search queries are evaluated from the perspective of informational motive and commercial motive.

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IPCOM000215602D | THE IP.COM JOURNAL | 03-OCT-2011 | The IP.com Prior Art Database

STIC

25. **Assessing Electronic Cigarette-Related Tweets for Sentiment and Content Using Supervised Machine Learning**

Background Electronic cigarettes (e-cigarettes) continue to be a growing topic among social media users, especially on Twitter. The ability to analyze conversations about e-cigarettes in real-time can provide important insight into trends in the public's knowledge, attitudes, and beliefs surrounding...

PMC4642404 | PUBMED CENTRAL | 25-AUG-2015 | Journal of Medical Internet Research, 17(8), e208

27. **PepeSearch: Semantic Data for the Masses**

With the emergence of the Web of Data, there is a need of tools for searching and exploring the growing amount of semantic data. Unfortunately, such tools are scarce and typically require knowledge of SPARQL/RDF. We propose here PepeSearch, a portable tool for searching semantic datasets devised for...

PMC4788387 | PUBMED CENTRAL | 11-MAR-2016 | PLoS ONE, 11(3), e0151573

28. **Supporting the education evidence portal via text mining**

The UK Education Evidence Portal (eep) provides a single, searchable, point of access to the contents of the websites of 33 organizations relating to education, with the aim of revolutionizing work practices for the education community. Use of the portal alleviates the need to spend time searching...

PMC2981937 | PUBMED CENTRAL | 28-AUG-2010 | Philosophical transactions. Series A, Mathematical, physical, and engineering sciences, 368(1925), 3829-3844

29. **Scoping Review on Search Queries and Social Media for Disease Surveillance: A Chronology of Innovation**

Background The threat of a global pandemic posed by outbreaks of influenza H5N1 (1997) and Severe Acute Respiratory Syndrome (SARS, 2002), both diseases of zoonotic origin, provoked interest in improving early warning systems and reinforced the need for combining data from different sources. It led...

PMC3785982 | PUBMED CENTRAL | 18-JUL-2013 | Journal of Medical Internet Research, 15(7), e147

30. **Improving multilingual search by adaptive N-candidate keyword translation and suggestion**

This invention uses an adaptive dictionary and N-candidate translation method to help user translate the keywords he/she wants to search for. And it adopts a reverse translation method as well as related keyword suggesting mechanism to help user choose needed keyword from candidates.

IPCOM000173439D | THE IP.COM JOURNAL | 06-AUG-2008 | The IP.com Prior Art Database

31. **Search Techniques for the Web of Things: A Taxonomy and Survey**

The Web of Things aims to make physical world objects and their data accessible through standard Web technologies to enable intelligent applications and sophisticated data analytics. Due to the amount and heterogeneity of the data, it is challenging to perform data analysis directly, especially when...

PMC4883291 | PUBMED CENTRAL | 27-APR-2016 | Sensors (Basel, Switzerland), 16(5), 600

32. **Influenza-Like Illness Surveillance on Twitter through Automated Learning of Naïve Language**

Twitter has the potential to be a timely and cost-effective source of data for syndromic surveillance. When speaking of an illness, Twitter users often report a combination of symptoms, rather than a suspected or final diagnosis, using naïve, everyday language. We developed a minimally trained...

PMC3853203 | PUBMED CENTRAL | 04-DEC-2013 | PLoS ONE, 8(12), e82489

33. **Multilingual Sentiment Analysis: State of the Art and Independent Comparison of Techniques**

With the advent of Internet, people actively express their opinions about products, services, events, political parties, etc., in social media, blogs, and website comments. The amount of research work on sentiment analysis is growing explosively. However, the majority of research efforts are devoted...

PMC4931629 | PUBMED CENTRAL | 01-JAN-2016 | Cognitive Computation, 8, 757-771

34. **A Multiple Relevance Feedback Strategy with Positive and Negative Models**

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A commonly used strategy to improve search accuracy is through feedback techniques. Existing feedback methods rely on positive information, and has been extensively studied in information retrieval. However, when a query topic is difficult and the results from the first-pass retrieval are...

PMC4138086 | PUBMED CENTRAL | 19-AUG-2014 | PLoS ONE, 9(8), e104707

35. **Review of Extracting Information From the Social Web for Health Personalization**

In recent years the Web has come into its own as a social platform where health consumers are actively creating and consuming Web content. Moreover, as the Web matures, consumers are gaining access to personalized applications adapted to their health needs and interests. The creation of personalized...

PMC3221336 | PUBMED CENTRAL | 28-JAN-2011 | Journal of Medical Internet Research, 13(1), e15

36. **Internet of Things: A Review of Surveys Based on Context Aware Intelligent Services**

The Internet of Things (IoT) has made it possible for devices around the world to acquire information and store it, in order to be able to use it at a later stage. However, this potential opportunity is often not exploited because of the excessively big interval between the data collection and the...

PMC4970116 | PUBMED CENTRAL | 11-JUL-2016 | Sensors (Basel, Switzerland), 16(7), 1069

37. **Linking genes to literature: text mining, information extraction, and retrieval applications for biology**

Efficient access to information contained in online scientific literature collections is essential for life science research, playing a crucial role from the initial stage of experiment planning to the final interpretation and communication of the results. The biological literature also constitutes ..

PMC2559992 | PUBMED CENTRAL | 01-JAN-2008 | Genome Biology, 9(Suppl 2), S8

38. **G-Bean: an ontology-graph based web tool for biomedical literature retrieval**

Background Currently, most people use NCBI's PubMed to search the MEDLINE database, an important bibliographical information source for life science and biomedical information. However, PubMed has some drawbacks that make it difficult to find relevant publications pertaining to users' individual...

PMC4243180 | PUBMED CENTRAL | 06-NOV-2014 | BMC Bioinformatics, 15(Suppl 12), S1

39. **Automatic Search Result Improvement Notification**

Disclosed is a system for automated notification of changed and/or improved search results based upon the intelligent determination of active interest in the search topic.

IPCOM000219530 | THE IP.COM JOURNAL | 23-JUN-2012 | The IP.com Prior Art Database

40. **An Intelligent Content Discovery Technique for Health Portal Content Management**

Background Continuous content management of health information portals is a feature vital for its sustainability and widespread acceptance. Knowledge and experience of a domain expert is essential for content management in the health domain. The rate of generation of online health resources is...

PMC4288068 | PUBMED CENTRAL | 23-APR-2014 | JMIR Medical Informatics, 2(1), e7

41. **A Context-Aware Mobile User Behavior-Based Neighbor Finding Approach for Preference Profile Construction †**

In this paper, a new approach is adopted to update the user preference profile by seeking users with similar interests based on the context obtainable for a mobile network instead of from desktop networks. The trust degree between mobile users is calculated by analyzing their behavior based on the...

PMC4801521 | PUBMED CENTRAL | 23-JAN-2016 | Sensors (Basel, Switzerland), 16(2), 143

42. **Knowledge and Theme Discovery across Very Large Biological Data Sets Using Distributed Queries: A Prototype Combining Unstructured and Structured Data**

As the discipline of biomedical science continues to apply new technologies capable of producing unprecedented volumes of noisy and complex biological data, it has become evident that available methods for deriving meaningful information from such data are simply not keeping pace. In order to...

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PMC3844638 | PUBMED CENTRAL | 02-DEC-2013 | PLoS ONE, 8(12), e80830

43. **Design and implementation of Metta, a metasearch engine for biomedical literature retrieval intended for systematic reviewers**

Background Individuals and groups who write systematic reviews and meta-analyses in evidence-based medicine regularly carry out literature searches across multiple search engines linked to different bibliographic databases, and thus have an urgent need for a suitable metasearch engine to save time...

PMC4375844 | PUBMED CENTRAL | 10-JAN-2014 | Health Information Science and Systems, 2, 1

44. **Emotional Salience and Clustering for Reranking Search Results**

Described herein are methods and systems for performing an explicit emotional clustering and ranking of document. Such features can be used to better predict the clicks that users would have eventually made for low-traffic sites given infinite traffic. The emotional clustering both gives the search...

IPCOM000230847D | THE IP.COM JOURNAL | 29-AUG-2013 | The IP.com Prior Art Database

45. **Introducing OmniFind Analytics Edition: Customizing Text Analytics**

IBM® OmniFind™ Analytics Edition uses information in unstructured and structured content to improve decision making. It provides unstructured information analysis, which can improve customer service levels, create cross-sell capabilities and provide early problem detection. IBM® OmniFind™ Analytics...

SG246756800 | IBM REDBOOKS | 25-JUN-2008

46. **Systems of Insight Overview**

Decision making is a critical function in any enterprise. The decision-making process that is enhanced by analytics can be described as consuming and collecting data, detecting relationships and patterns, applying sophisticated analysis techniques, reporting, and automation of the follow-on action....

REDP5293800 | IBM REDBOOKS | 17-NOV-2015

47. **Cognitive Personal Shopping Assistant Optimized on Shopper's Profile**

Disclosed is a system for a Personal shopping assistant (PSA) that understands a user's shopping preferences and activities and dynamically generates and updates a shopping list. The main point of novelty is the ability of the system to learn while processing customer shopping experiences and then...

IPCOM000241828D | THE IP.COM JOURNAL | 02-JUN-2015 | The IP.com Prior Art Database

48. **Determining Fuzzy Membership for Sentiment Classification: A Three-Layer Sentiment Propagation Model**

Enormous quantities of review documents exist in forums, blogs, twitter accounts, and shopping web sites. Analysis of the sentiment information hidden in these review documents is very useful for consumers and manufacturers. The sentiment orientation and sentiment intensity of a review can be...

PMC5112907 | PUBMED CENTRAL | 15-NOV-2016 | PLoS ONE, 11(11), e0165560

49. **Method and System of Online Learning for Recency Search Ranking using Real-Time User Feedback**

A method and system of online learning for recency search ranking using real-time user feedback is disclosed. Real-time changes in relevancy ranking of documents are tracked for recency search ranking.

IPCOM000203067D | THE IP.COM JOURNAL | 14-JAN-2011 | The IP.com Prior Art Database

50. **System and Method for Log Analysis and Correlation**

Disclosed is a system and method to use a centralized server for intelligent log analysis and possible contextualized solutions for an error found in log files. The server processes the log files, understands their context, and searches in many different databases for the best solution for the error ...

IPCOM000219539D | THE IP.COM JOURNAL | 05-JUL-2012 | The IP.com Prior Art Database

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Chronic Kidney Disease, Dialysis, and Transplantation - (Third Edition ...
www.sciencedirect.com/science/book/9781437709872
Mar 10, 2011 - Pages 98-114, Sharon M. Moe. First page PDF ... Pages 231-250, Bradley A. Warady, Vimal Chadha. First page .... Pages 636-640, John S. Gill, Glwyn Johnston.

Avneet Chadha - Address, Phone Number, Public Records | Radaris
radaris.com/p/Avneet/Chadha/
May 4, 2011 - Find Avneet Chadha's contact information, age, background check, white pages, ... Related to: Shagwant K ChadhaParvinder S ChadhaSharon Gill Chadha .

A Double-Blind Comparison of Empirical Oral and Intravenous ...
www.nejm.org/doi/full/10.1056/NEJM199907293410501
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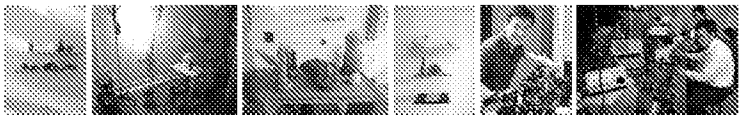
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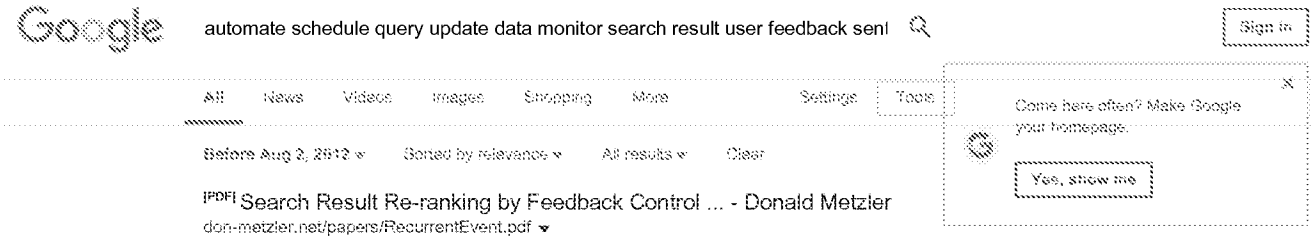
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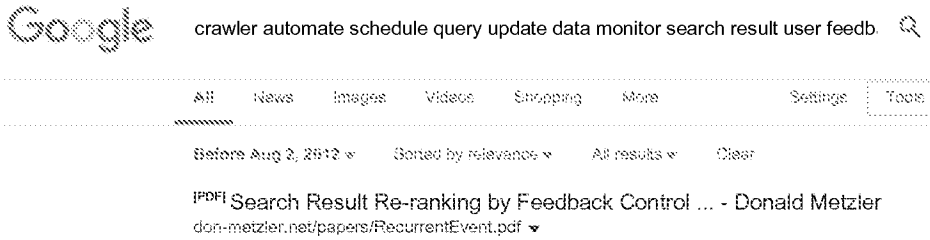
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IBM Content Analytics with Enterprise Search V3.0 combines the ...
www.ibm.com/common/ssi/cgi-bin/ssialias?subtype=ca...
May 29, 2012 - Content Analytics with Enterprise Search provides tools you can use to drive better ... Automatic generation of linguistic rules by selecting, dragging, and dropping text ... the administrator to maintain, monitor, and update multiple enterprise search ... Query is automatically expanded to apply the rule before returning results.

[PDF] Crawling EDGAR - The University of North Carolina at Chapel Hill
www.unc.edu/~garciadi/paper_edgar_v07.pdf
by D Garcia - 2012 - Related articles
Mar 21, 2012 - computing details of searching for information on the Internet. One important ... to monitor and decode the words, opinions, rants and even ... To illustrate how to download and extract information from EDGAR, we use .... to as Schedule 13D) and Form 3C 13G. .... ftp.sec.gov/edgar/data/1000032/0001181431-11-058482.txt.

[PDF] crawling the web: discovery and maintenance of large-scale web data
oak.cs.ucla.edu/~cho/papers/cho-thesis.pdf
by J Cho - 2001 - Cited by 99 - Related articles
Nov 15, 2001 - opinion, it is fully adequate in scope and quality as a disser- ... crawler. A crawler is a program that retrieves and stores pages from the Web, ... for the WebBase project is a direct result of this dissertation research. ..... in Chapter 4, roughly 40% of the Web pages that we monitored were updated.

W3C's Excessive DTD Traffic | W3C Systems Team's Blog
https://www.w3.org/blog/systeam/2008/.../w3c_s_excessive_dtd_traffic/
Feb 8, 2008 - A while ago we put a system in place to monitor our servers for abusive ... Many of the automated requests we receive have generic user-agent .... The various DTD servers would then only update their caches when the TTL ..... advertise peak hours with higher thresholds if the crawler would like to schedule it's return

Patent US7831426 - Network based interactive speech recognition ...
www.google.com/patents/US7831426
Nov 9, 2010 - Another routine converts the selected set of phrases into a search query suitable ... language processing on said recognized speech utterance data to identify a selected ... The interactive speech system of claim 1 , wherein a confidence level for .... aspect of emulating a human-like dialog involves the use of oral feedback.

[PDF] A Catalogue of Lightweight Visualizations to Support ... - Chris Parnin
chrisparnin.me/pdf/parnin-softvis08.pdf
by C Parnin - 2008 - Cited by 42 - Related articles
Sep 17, 2008 - visualization techniques only handle the voluminous aspect of data ... ers can use our visualizations with defect analysis tools to assist in ... 2005] or by supporting querying

for code smells [Tourwé and Mens, 2003] ... Reviews were also scheduled after the completion of a module or before ... Monitoring is a common activity.

[PDF] Suspended Accounts in Retrospect: An Analysis of Twitter Spam - ICIR
www.icir.org/vern/papers/twitter-susp-accounts.imc2011.pdf
by K Thomas - 2011 - Cited by 255 - Related articles
May 15, 2011 - Our results show that 77% of spam accounts identified by Twitter ... spam tweets were accessed due to search queries, search spam is beyond the scope of this ...

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Ad lp.servicemax.com/**Scheduling**
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Did you mean:

Search engine with natural language-based robust parsing for **user query** and relevance **feedback** learning

HF Wang, KF Lee, Q Yang - US Patent 6,766,320, 2004 - Google Patents

... A web **crawler** 224 may also be included to provide information as needed from the Web ... this example, the answer table 708 pertains to answers about a flight **schedule**, and hence ... From the above **query**, two similar **search results** ("famous sites in Beijing") and "; " ("famous sites ...

Cited by 360 Related articles All 3 versions Cite Save

Search result re-ranking by **feedback** control adjustment for time-sensitive **query**

R Zhang, Y Chang, Z Zheng, D Metzler... - Proceedings of Human ..., 2009 - dl.acm.org

... sigir2009.org/**schedule** SERP2 url1: http://www.sigir.org url2: http://www.sigir2009.org url3: http://www.sigir2009.org/**schedule** url4: http ... But a web document may exist several years be- fore a **crawler** found it. ... Personalizing **search** via **automated** analysis of inter- ests and activities ...

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Search engines

WB Croft, D Metzler, T Strohmann - 2010 - pdfs.semanticscholar.org

... 33 3.2 Crawling the Web. The web **crawler** connects to web servers to find pages. ... 476 11.11Examples of **automatic** text annotation of images . . . . 252 7.3 **Query** likelihood scores for an example document . . . .

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Mining the Web: Discovering knowledge from hypertext **data**

S Chakrabarti - 2002 - books.google.com

... Web mining-or the **automatic** discovery of interesting and valuable information from the Web-has ... 2.3 HTML and HTTP Basics 18 Crawling Basics 19 Engineering Large-Scale **Crawlers** 21 2.3 ... Repository 31 2.3.11 Refreshing Crawled Pages 33 Putting Together a **Crawler** 35 2.4 ...

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Refining **search queries** by the suggestion of correlated terms from prior **searches**

DE Bowman, RE Ortega, ML Hamrick... - US Patent ..., 1999 - Google Patents

... 2, A Corpus Analysis Approach for **Automatic Query** Expansion, Gauch and Wang, Proceedings of ... A **User**-centred Evaluation of Ranking Algorithms for Interactive **Query** Expansion, Efthimiadis ... 6, *, Abstract of Facilitating Complex Web **Queries** Through Visual **User** Interfaces and ...

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Data mining: concepts and techniques

J Han, J Pei, M Kamber - 2011 - books.google.com

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Automatic, personalized online information and product services

Y Konig, R Twersky, MR Berthold - US Patent 6,981,040, 2005 - Google Patents

... A method for item recommendation based on **automated** collaborative filtering is disclosed in US Pat. ... 18 is a block diagram of the personal **crawler** application of the present invention. ... organizations, or group of **users**, the pushed information can include **automatic** routing and ...

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Metadata **search results** ranking system

SB Edlund, ML Emens, R Kraft, J Myllymaki... - US Patent ..., 2004 - Google Patents

... The problem present with the prior art is the inherent difficulty for web **crawlers** to adequately **search**, process, rank, and sort the vast amounts of information available on the Internet. **...** What is the difference of a **query**, issued by **User** A who **queried** "CATS and DOGS", and **...**

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… gathers information from multiple information sources, processes the information, and distributes the information to multiple **users** and **user** communities through an …

J Bowden, S Graham, A Sherwood... - US Patent App. 11/ ..., 2005 - Google Patents

... searching other information sources indicated by the **user** and indicated by **automated** processes for **...** In other words, the web **crawler** can be configured to direct access to particular **...** However, such strategies are problematic for web **crawlers** used by information services that **...**

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System for synchronizing of **user's** affinity to knowledge

JP Goodwin, CJ Kraenzel, AL Schirmer... - US Patent ..., 2007 - Google Patents

... When **scheduled**, e-mail spider 162 may connect to the specified e-mail database and examine **...** When the **schedule** indicates that a database is to be spidered, scheduler 108 puts a **...** In some embodiment, notification module 178 may notify the **user** that an **update** of information **...**

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Did you mean to search for:

Search engine with natural language-based robust parsing for **user query** and relevance **feedback** learning

HF Wang, KF Lee, Q Yang - US Patent 6,766,320, 2004 - Google Patents

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Real-time **Monitoring** of Public **Sentiment**

RA Herring, JH Lewallen, TD Newman... - US Patent App. 13/ ..., 2011 - Google Patents

... or suggested and thereby **user**-directed, with **users** able to override any **automatic** action. ... time (which may be right away if on demand), at which the **crawler** (step 508 ... US7295996 *, Dec 2, 2002, Nov 13, 2007, Skinner Christopher J, **Automated** web ranking bid management ...

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Media content **search** engine incorporating text content and **user** log mining

M Li, HJ Zhang, WY Liu, Z Chen - US Patent 7,231,381, 2007 - Google Patents

... Component 126 may access sources frequently, such as continually, at **scheduled** intervals, at ... During the collection process, **crawler** 130 loads these referenced media content pieces ... another component or module (eg, another application performing an **automatic search** or a ...

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… gathers information from multiple information sources, processes the information, and distributes the information to multiple **users** and **user** communities through an …

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Method and system for business intelligence analytics on unstructured **data**

A Guha, J Wrabetz, S Wu, V Madireddi - US Patent 8,266,148, 2012 - Google Patents

... blogs and social media websites by using tools such as web **crawlers**, downloaders, and **...** systems are unable to make assumptions about **data** and attempts to **automate** the **use ... user**-defined classification 306-1 may be **updated** or corrected through **automated** classification 306 **...**

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Method and system for extracting web **data**

O Levy, J Schler, D Tenne, A Navot - US Patent 7,596,552, 2009 - Google Patents

... 3,950,618 entitled: "System for Public **Opinion** research" describes an **automatic** system for processing a **...** 809, utilizing a downloads queue 813 to be used by the **crawler**(s) 801. **...** In addition, employing several **crawlers** 801 together allows parallelism in the downloading process **...**

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14960309	CHADHA ET AL.
	Examiner	Art Unit
	MICHAEL PHAM	2167

CPC- SEARCHED		
Symbol	Date	Examiner
G06F17/30672, G06F17/30442, and G06F17/30796	2/6/2017	MP

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
707	722, 765	2/6/2017	MP

SEARCH NOTES		
Search Notes	Date	Examiner
npl search (google, google scholar, ip.com)	2/6/2017	MP
East search	2/6/2017	MP
G06F17/30672, G06F17/30442, and G06F17/30796 see search history printouts	2/6/2017	MP
707/722, 765 see search history printouts	2/6/2017	MP
	2/6/2017	MP

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
G06F	17/30672, 17/30442, and 17/30796 uspat uspgpub	2/6/2017	MP
707	722, 765	2/6/2017	MP

IPR2025-00623
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L13	0	search results (like or dislike) feedback second user and @ad<"20120802" AND ((G06F17/30672 OR G06F17/30442 OR G06F17/30796).CPC. or 707/722.ccls. or 707/765.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/02/06 06:52
L12	5	L8 AND ((G06F17/30672 OR G06F17/30442 OR G06F17/30796).CPC. or 707/722.ccls. or 707/765.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/02/06 06:52
L11	5	L8 AND ((G06F17/30672 OR G06F17/30442 OR G06F17/30796).CPC. or 707/722.ccls. 707/765.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/02/06 06:52
L10	5	L8 AND ((G06F17/30672 OR G06F17/30442 OR G06F17/30796).CPC. or 707/765.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/02/06 06:51
L9	5	L8 AND ((G06F17/30672 OR G06F17/30442 OR G06F17/30796).CPC. or 707/765.ccls.)	US-PGPUB; USPAT	SAME	OFF	2017/02/06 06:51
L8	8	query topic expand$3 analyze	US-PGPUB; USPAT	SAME	OFF	2017/02/06 06:51
L2	5	L1 AND ((G06F17/30672 OR G06F17/30442 OR G06F17/30796).CPC. or 707/765.ccls.)	US-PGPUB; USPAT	SAME	OFF	2017/02/06 06:49
L1	8	query topic expand$3 analyze	US-PGPUB; USPAT	SAME	OFF	2017/02/06 06:49

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S1408	1	("8965897").PN.	USPAT; USOCR	OR	OFF	2017/02/05 18:13
S1407	1	("8626753").PN.	USPAT; USOCR	OR	OFF	2017/02/05 18:12
S1406	18	search results (like or dislike) feedback second user and @ad<"20120802"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/02/05 18:04

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S1404	0	(sentiment) search results feedback second user and @ad<"20120802"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/02/05 17:58
S1403	5	(sentiment) search results and feedback second user and @ad<"20120802"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/02/05 17:56
S1402	93	(sentiment or pattern) search results and feedback second user and @ad<"20120802"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/02/05 17:36
S1381	112	(monitor$3 or schedul$3) query (new or updated) data and (sentiment or pattern or index or rank$3) second and user feedback and @ad<"20120802"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2017/02/05 16:59
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S1376	2	(("5761662") or ("5813007")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/02/04 21:06
S1375	1	("6260041").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/02/04 21:05
S1374	2	(("20120150645") or ("20050283473")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/02/04 21:04
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S1370	2	(("8775406") or ("20140316911")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/02/04 21:00
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S1368	2	(("8788657") or ("20140250196")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/02/04 20:53
S1367	1	monitor$3 search query match$3 updated data and feedback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/02/04 20:40
S1366	0	709/224.ccls. and monitor$3 search query match$3 updated data and "707".clas. and feedback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/02/04 20:40
S1365	35	709/224.ccls. and query monitor$3 and "707".clas. and feedback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/02/04 20:31
S1364	22	709/224.ccls. and query monitor and "707".clas. and feedback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/02/04 20:29
S1363	68	709/224.ccls. and query monitor and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/02/04 20:29

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S1361	62958	709/224	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/02/04 20:28
S1360	47	"6260041"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/02/04 20:28
S1359	1	(monitor$3 or track$3) search query match$3 updated data and feedback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/02/04 20:21
S1358	450	"6640249"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/02/04 20:18
S1357	2	"20020143932"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/02/04 20:16
S1356	11	(query or search) monitor$3 match$ updated data	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/02/04 20:13
S1355	798	(query or search) monitor$3 match$ data	US-PGPUB; USPAT;	WITH	ON	2017/02/04 20:13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S1354	23	schedul$3 (query or search) monitor$3 match$ data and feedback and (pattern or sentiment)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/02/04 20:08
S1353	44	schedul$3 (query or search) monitor$3 match$ data	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/02/04 20:07
S1352	6	schedul$3 query monitor$3 updated data	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/02/04 20:04
S1351	0	schedul$3 query monitor$3 updated data	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2017/02/04 20:04
S1350	144	schedul$3 query monitor$3 updated data	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2017/02/04 20:03
S1349	401	schedul$3 query monitor$3 new data	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2017/02/04 20:03
S1346	9	(("8078489") or ("20040015481") or ("20050283473") or ("20080201339") or	US-PGPUB; USPAT; USOCR	OR	OFF	2017/02/04 20:00

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		("20080270344") or ("20110047161") or ("20120150645") or ("20130282702") or ("20130325838")).PN.				
S1345	1	(("8078489") or ("20040015481") or ("20050283473") or ("20080201339") or ("20080270344") or ("20110047161") or ("20120150645") or ("20130282702") or ("20130325838")).PN.	USPAT; USOCR	OR	OFF	2017/02/04 20:00
S1344	16	"13928313"	US-PGPUB; USPAT	OR	OFF	2017/02/04 19:58
S1343	9	"6260041" and feedback and (pattern or sentiment)	US-PGPUB; USPAT	OR	OFF	2017/02/04 19:55
S1342	11	"6260041" and feedback and (pattern or index$3 or sentiment)	US-PGPUB; USPAT	OR	OFF	2017/02/04 19:54
S1341	11	"6260041" and feedback	US-PGPUB; USPAT	OR	OFF	2017/02/04 19:54
S1340	10	"6260041" and feedback	USPAT	OR	OFF	2017/02/04 19:54
S1339	39	"6260041"	USPAT	OR	OFF	2017/02/04 19:54

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	3	query expand$3 analyze feedback and((G06F17/30672 OR G06F17/30442 OR G06F17/30796).CPC. or 707/765.ccls.)	US-PGPUB; USPAT	SAME	OFF	2017/02/06 06:50
L6	5	query topic expand$3 analyze AND ((G06F17/30672 OR G06F17/30442 OR G06F17/30796).CPC. or (707/722 or 707/765).ccls.)	US-PGPUB; USPAT	SAME	OFF	2017/02/06 06:50
L5	3	query expand$3 analyze feedback and((G06F17/30672 OR G06F17/30442 OR G06F17/30796).CPC. or(707/765 or 707/722).ccls.)	US-PGPUB; USPAT	SAME	OFF	2017/02/06 06:50
L4	5	query topic expand$3 analyze AND ((G06F17/30672 OR G06F17/30442 OR	US-PGPUB; USPAT	SAME	OFF	2017/02/06 06:50

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		G06F17/30796).CPC. or 707/765.ccls.)				
L3	3382	"5" AND ((G06F17/30672 OR G06F17/30442 OR G06F17/30796).CPC. or 707/765.ccls.)	US-PGPUB; USPAT	SAME	OFF	2017/02/06 06:50
S1401	5	monitor$3 query and updat$3 database and crawl$3 and second user feedback and @ad<"20120802"	US-PGPUB; USPAT	WITH	OFF	2017/02/05 16:58
S1400	174	monitor$3 query and updat$3 database and crawl$3 and @ad<"20120802"	US-PGPUB; USPAT	WITH	OFF	2017/02/05 16:58
S1399	6	monitor$3 schedu$3 query and crawl$3 and @ad<"20120802"	US-PGPUB; USPAT	WITH	OFF	2017/02/05 16:55
S1398	0	monitor$3 schedu$3 query crawl$3 and @ad<"20120802"	US-PGPUB; USPAT	WITH	OFF	2017/02/05 16:55
S1397	165	monitor$3 schedu$3 query and @ad<"20120802"	US-PGPUB; USPAT	WITH	OFF	2017/02/05 16:54
S1396	0	monitor$3 schedu$3 query and second user feedback and @ad<"20120802"	US-PGPUB; USPAT	WITH	OFF	2017/02/05 16:54
S1395	0	schedul$3 stored query and second user feedback and @ad<"20120802"	US-PGPUB; USPAT	WITH	OFF	2017/02/05 16:52
S1394	44	execut$3 stored query and second user feedback and @ad<"20120802"	US-PGPUB; USPAT	WITH	OFF	2017/02/05 16:51
S1393	224	execut$3 stored query and second user feedback and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/02/05 16:51
S1392	55	(monitor$3 or schedul$3) store query and second user feedback and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/02/05 16:49
S1391	0	(monitor$3 or schedul$3) store rerun query and second user feedback and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/02/05 16:49
S1390	1	(monitor$3 or schedul$3) store query (new or updated) data and second user feedback and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/02/05 16:49
S1389	1	(monitor$3 or schedul$3) store query (new or updated) data and (sentiment or pattern or index or rank$3) and second user feedback and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/02/05 16:48

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S1388	26	(monitor$3 or schedul$3) query (new or updated) data and (sentiment or pattern or index or rank$3) and second user feedback and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/02/05 16:45
S1387	112	(monitor$3 or schedul$3) query (new or updated) data and (sentiment or pattern or index or rank$3) second and user feedback and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/02/05 16:45
S1386	2	(monitor$3 or schedul$3) query (new or updated) data and (sentiment or pattern or index or rank$3) second user feedback and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/02/05 16:45
S1385	0	schedul$3 query and (sentiment or pattern or index) second user feedback and "709".clas. and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/02/05 16:44
S1384	2	schedul$3 query and (sentiment or pattern or index) second user feedback and "707".clas. and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/02/05 16:42
S1383	25	automatic query and (sentiment or pattern or index) second user feedback and "707".clas. and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/02/05 16:41
S1382	21	query monitor$3 and (sentiment or pattern or index) second user feedback and "707".clas. and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/02/05 16:34
S1380	13	extract$3 (sentiment or pattern or index) second user feedback and "707".clas. and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/02/05 14:48
S1379	73	extract$3 (sentiment or pattern or index) second user feedback and @ad<"20120802"	US-PGPUB; USPAT	SAME	OFF	2017/02/05 14:47
S1378	97	extract$3 (sentiment or pattern or index) second user feedback	US-PGPUB; USPAT	SAME	OFF	2017/02/05 14:11
S1348	8	database query monitor$3 detect$3 (sentiment or index or pattern) feedback second user	US-PGPUB; USPAT	SAME	OFF	2017/02/04 19:53
S1347	16	database query monitor$3 feedback second user	US-PGPUB; USPAT	SAME	OFF	2017/02/04 19:52

2/6/2017 6:53:38 AM
C:\Users\mpham1\Documents\EAST\Workspaces\13928313.wsp

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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14960309	CHADHA ET AL.
	Examiner	Art Unit
	MICHAEL PHAM	2167

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	07/25/2016	02/06/2017							
	1	✓	✓							
	2	✓	✓							
	3	✓	✓							
	4	✓	✓							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	✓							
	10	✓	✓							
	11	✓	✓							
	12	✓	✓							
	13	✓	✓							
	14	✓	✓							
	15	✓	✓							
	16	✓	✓							
	17	✓	✓							
	18	✓	✓							
	19	✓	✓							
	20	✓	✓							

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Sharon Gill Chadha et al.	Customer No.: 98275
Application No.: 14/960,309	Art Unit: 2167
Filed: December 4, 2015	Confirmation No.: 1063
For: REAL-TIME AND ADAPTIVE DATA MINING	Examiner: MICHAEL PHAM

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REPLY UNDER 37 C.F.R. 1.111

Dear Commissioner:

In response to the Office Action dated July 29, 2016, reconsideration and further examination of the above-identified application are respectfully requested based on the following:

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 6 of this paper.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of analyzing data, comprising:

generating, by a first user, a query based at least in part on a topic of interest;

executing the query on a plurality of data sources;

monitoring, based on a set schedule, at least one ~~specific~~ data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof; [[and]]

analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;

establishing a communication channel, with a second user, based at least in part on the analysis of the extracted data ~~extracted from the at least one monitored data source~~; and

receiving feedback from the second user in response to a communication on the established communication channel.

2. (Previously Presented) The method of claim 1, further comprising:

analyzing the extracted data; and

receiving feedback from the user based at least in part on the established communication channel.

3. (Previously Presented) The method of claim 2, further comprising visualizing at least one of the extracted data, the analyzed data, or a combination thereof.

4. (Previously Presented) The method of claim 1, further comprising:

refining the search terms based at least in part on the executed query, and in which the monitoring is performed to monitor for matches to a refined query.

5. (Currently Amended) The method of claim 1, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that [[at]] are not publically accessible.

6. (Previously Presented) The method of claim 1, in which the query is a natural language query, and

further comprising translating the query to a system understood language.

7. (Previously Presented) The method of claim 1, in which the plurality of data sources are pre-defined.

8. (Currently Amended) The method of claim 1, further comprising:

expanding search terms of the query; and

selecting the at least one data source from the plurality of data sources, the at least one data source being selected when results of the query are greater than or equal to [[an]] accuracy thresholds.

9. (Previously Presented) The method of claim 8, in which expanding the query comprises expanding the search terms to include at least misspellings, synonyms, sub-topics, antonyms, or a combination thereof.

10. (Previously Presented) The method of claim 1, in which the monitoring comprises deploying extractors to each of specific data source, a number of extractors being dynamic based at least in part on a traffic volume of each specific data source.

11. (Currently Amended) An apparatus for analyzing data, the apparatus comprising:

a memory; and

at least one processor coupled to the memory, the at least one processor being configured:

to generate, by a first user, a query based at least in part on a topic of interest;

to execute the query on a plurality of data sources;

to monitor, based on a set schedule, at least one ~~specific~~ data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract

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data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof; [[and]]

to analyze the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;

to establish a communication channel, with a second user, based at least in part on the analysis of the extracted data ~~extracted from the at least one monitored data source~~; and

to receive feedback from the second user in response to a communication on the established communication channel.

12. (Previously Presented) The apparatus of claim 11, in which the at least one processor is further configured:

to analyze the extracted data; and

to receive feedback from the user based at least in part on the established communication channel.

13. (Previously Presented) The apparatus of claim 12, in which the at least one processor is further configured to visualize at least one of the extracted data, the analyzed data, or a combination thereof.

14. (Previously Presented) The apparatus of claim 11, in which the at least one processor is further configured:

to refine the search terms based at least in part on the executed query,

to monitor for matches to a refined query.

15. (Currently Amended)) The apparatus of claim 11, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that [[at]] are not publically accessible.

16. (Currently Amended) A non-transitory computer-readable medium having program code recorded thereon for analyzing data, the program code being executed by a processor and comprising:

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program code to generate, by a first user, a query based at least in part on a topic of interest;

program code to execute the query on a plurality of data sources;

program code to monitor, based on a set schedule, at least one ~~specific~~ data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof; [[and]]

program code to analyze the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;

program code to establish a communication channel, with a second user, based at least in part on the analysis of the extracted data ~~extracted from the at least one monitored data source;~~ and

program code to receive feedback from the second user in response to a communication on the established communication channel.

17. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the program code further comprises:

program code to analyze the extracted data; and

program code to receive feedback from the user based at least in part on the established communication channel.

18. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the program code further comprises:

program code to refine the search terms based at least in part on the executed query,

program code to monitor for matches to a refined query.

19. (Currently Amended) The non-transitory computer-readable medium of claim 16, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that [[at]] are not publically accessible.

20. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the plurality of data sources are pre-defined.

REMARKS

In response to the Office Action dated July 29, 2016, the Office Action's claim rejections have been considered. Claims 1-20 are pending. No new matter is added. Support for the amended claims is provided at least in paragraphs 32 and 49 of the published specification (US 2016/0085823). Applicants respectfully traverse all rejections of all pending claims and earnestly solicit allowance of these claims.

Telephonic Interview Summary

Applicants express their appreciation to the Examiner for discussing the present application on September 21, 2016. During the interview, applicants' representative discussed the current amendments. The Examiner indicated that the current amendments appear to overcome the rejections, but a further search is necessary. In accordance with the interview, the present paper is submitted.

Claim Objections

Claims 5 and 19 are objected to because of alleged informalities. Claims 5 and 19 have been amended as suggested by the Examiner. Applicants request for withdrawal of the objections to claims 5 and 19.

Obviousness-Type Double Patenting Rejection

Claims 1-20 stand provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7, 9-15, and 19-21 of U.S. Patent No. 9,229,977.

Applicants acknowledge the provisional obviousness-type double patenting rejection and respectfully request that the Examiner hold the requirement for a terminal disclaimer in abeyance and reconsider the obviousness-type double patenting rejection after examination on the merits of all claims in the present application. At that point, if the Examiner still believes an obviousness-type double patenting rejection is appropriate, applicants will reconsider filing a

terminal disclaimer to obviate the double patenting rejections in compliance with 37 CFR § 1.321 (b) and (c).

Claim Rejections - 35 U.S.C. § 102

Claims 1-7 and 10-20 are rejected under pre-AIA 35 U.S.C. § 102(b) as allegedly being anticipated by U.S. Patent No. 6,260,041 ("Gonzalez"). Applicants respectfully traverse these rejections and reconsideration and withdrawal of these rejections are respectfully requested.

As amended, claim 1 recites:

> A method of analyzing data, comprising:
>
> generating, by a first user, a query based at least in part on a topic of interest;
>
> executing the query on a plurality of data sources;
>
> monitoring, based on a set schedule, at least one data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof;
>
> analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;
>
> establishing a communication channel, with a second user, based at least in part on the analysis of the extracted data; and
>
> receiving feedback from the second user in response to a communication on the established communication channel.

As discussed during the interview, Gonzalez is silent on, at least, "analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof" and "receiving feedback from the second user in response to a communication on the established communication channel," as recited in claim 1. Gonzalez does not teach or suggest at least, "analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof" and "receiving feedback from the second user in response to a communication on the established communication channel," as recited in claim 1.

Applicants have demonstrated that Gonzalez fails to teach or suggest various elements recited in claim 1. Therefore, claim 1 is believed to be allowable over Gonzalez. The other rejected independent claims recite elements similar to those discussed above with respect to claim 1 and are believed to be allowable for reasons similar to those presented for claim 1. The dependent claims rejected under pre-AIA 35 U.S.C. § 102(b) are allowable at least by virtue of their dependence on an allowable base claim, in addition to reasons related to their own recitations.

Claim Rejections - 35 U.S.C. § 103

Claims 8-9 are rejected under pre-AIA 35 U.S.C. § 103(a) as allegedly being unpatentable over U.S. Patent No. 6,260,041 ("Gonzalez") in view of U.S. Patent No. 8,788,657 ("Hodges"). Applicants respectfully traverse these rejections and reconsideration and withdrawal of these rejections are respectfully requested.

Applicants have demonstrated above that Gonzalez does not teach or suggest various elements recited in the independent claims. Hodges is directed to computer-implemented subject monitoring. Still, Hodges also fails to teach or suggest, at least, analyzing "the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof" and receiving "feedback from the second user in response to a communication on the established communication channel," as recited in the independent claims. Thus, Hodges fails to cure the stated deficiencies of Gonzalez. Therefore, the independent claims are also allowable over the combination of Gonzalez and Hodges. The dependent claims 8-9 are allowable over the combination of Gonzalez and Hodges at least by virtue of their dependence on an allowable base claim, in addition to reasons related to their own recitations.

CONCLUSION

The absence of a reply to a specific rejection, issue, or comment does not signify agreement with or concession of that rejection, issue, or comment. In addition, because the arguments above may not be exhaustive, there may be other reasons for patentability of any or all claims that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper, and the amendment or cancellation of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment or cancellation.

In light of the amendments and remarks, applicants submit that the claims are in condition for allowance and respectfully request a notice to this effect. Should the Examiner have any questions, please call the undersigned at the phone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. § 1.136 is submitted. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 19-1351 and please credit any excess fees to such deposit account.

Dated: October 31, 2016

Respectfully submitted,

By: /Puya Partow-Navid/
Puya Partow-Navid, Reg. No. 59,657
Attorney for Applicants

Seyfarth Shaw LLP
2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3021
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Facsimile (310) 201-5219

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Electronic Acknowledgement Receipt

EFS ID:	27367000
Application Number:	14960309
International Application Number:	
Confirmation Number:	1063
Title of Invention:	REAL-TIME AND ADAPTIVE DATA MINING
First Named Inventor/Applicant Name:	Sharon Gill CHADHA
Customer Number:	98275
Filer:	Puya Partow-Navid/Gayle Vinson
Filer Authorized By:	Puya Partow-Navid
Attorney Docket Number:	79531-000022
Receipt Date:	31-OCT-2016
Filing Date:	04-DEC-2015
Time Stamp:	16:45:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		79531-000022_OAR_AsFiled_31October2016.pdf	324605 7b3a1df2bcc32ed71e555d47485b2214500 1a514	yes	9

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	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	5
	Applicant Arguments/Remarks Made in an Amendment	6	9
Warnings:			
Information:			
	Total Files Size (in bytes):	324605	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/960,309	Filing Date 12/04/2015	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT **10/31/2016**

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $40 =	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $210 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
THUY TA

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IPR2025-00623
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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/960,309	12/04/2015	Sharon Gill CHADHA	79531-000022	1063

98275 7590 10/05/2016

Seyfarth Shaw LLP
2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3063

EXAMINER
PHAM, MICHAEL

ART UNIT	PAPER NUMBER
2167	

NOTIFICATION DATE	DELIVERY MODE
10/05/2016	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

laxipdocket@seyfarth.com

Applicant-Initiated Interview Summary	Application No.	Applicant(s)	
	14/960,309	CHADHA ET AL.	
	Examiner	Art Unit	
	MICHAEL PHAM	2167	

All participants (applicant, applicant's representative, PTO personnel):

(1) *MICHAEL PHAM*. (3)_____.

(2) *Puya Partow-Navid*. (4)_____.

Date of Interview: *27 September 2016*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☐ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☒Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: *proposed claim 1*.

Identification of prior art discussed: _____.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

It was discussed that the proposed claim amendments appear to overcome the cited portions of the reference, and that if proceeded would require further search and/or consideration. While proposals were discussed no agreement was yet reached. Applicant's are advised to file a formal response for further consideration and/or search..

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/M. P./ Examiner, Art Unit 2167	

IPR2025-00623
UIPATH EXHIBIT 1002

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

———

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

IPR2025-00623
UIPATH EXHIBIT 1002

Pham, Michael (AU2167)

From: Partow-Navid, Puya <PPartowNavid@seyfarth.com>
Sent: Thursday, September 22, 2016 8:45 PM
To: Pham, Michael (AU2167)
Subject: 14/960309 proposed amendment

Examiner Pham,

Thanks for discussing the application no. 14/960,309 on Sep. 21.

The following is a proposed amendment to claim 1 based on our discussion:

1. (Currently Amended) A method of analyzing data, comprising:

generating, by a first user, a query based at least in part on a topic of interest;

executing the query on a plurality of data sources;

monitoring, based on a set schedule, at least one specific data

source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof; [[and]]

analyzing the extracted data to determine at least one of a sentiment, an index, a pattern, or a combination thereof;

establishing a communication channel, with a second user, based at least in part on the analysis of the extracted data ~~extracted from the at least one monitored data source~~; and

receiving feedback from the second user in response to a communication on the established communication channel.

Support for the amendments may be found in paragraphs 49 and 55 of the published application.

Please let me know if you believe the amendments would move the application forward.

Thanks,

Puya Partow-Navid

Puya Partow-Navid | Senior Associate | Seyfarth Shaw LLP
2029 Century Park East | Suite 3500 | Los Angeles, California 90067-3021
Direct: +1-310-201-1550 | Fax: +1-310-551-8350
ppartownavid@seyfarth.com | www.seyfarth.com



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/960,309	12/04/2015	Sharon Gill CHADHA	79531-000022	1063

98275 7590 09/29/2016

Seyfarth Shaw LLP
2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3063

EXAMINER
PHAM, MICHAEL

ART UNIT	PAPER NUMBER
2167	

NOTIFICATION DATE	DELIVERY MODE
09/29/2016	ELECTRONIC

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laxipdocket@seyfarth.com

Applicant-Initiated Interview Summary	Application No.	Applicant(s)	
	14/960,309	CHADHA ET AL.	
	Examiner	Art Unit	
	MICHAEL PHAM	2167	

All participants (applicant, applicant's representative, PTO personnel):

(1) *MICHAEL PHAM*. (3)_____.

(2) *Puya Partow-Navid (reg. 59657)*. (4)_____.

Date of Interview: *21 September 2016*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☐ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☒102 ☐103 ☐Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: *proposed claim 1*.

Identification of prior art discussed: _____.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

See Continuation Sheet.

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☒ Attachment

/KIMBERLY WILSON/ Primary Examiner, Art Unit 2167	/M. P./ Examiner, Art Unit 2167

IPR2025-00623
UIPATH EXHIBIT 1002

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- Date of interview
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- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
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2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
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7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

IPR2025-00623
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Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Applicant's discussed the proposed claim amendments with respect to the agenda. Regarding the proposed amendment it was indicated in the interview to make clear that the first user is different from second user, and it was further dicussed to clarify that the updated data/newly added data that matches the query is from the second user. Applicant's representative suggested to further clarify the determining information step to correspond to a sentiment of the second user. Examiner indicated that based on language makes the limitation broad as well. In any case, it was discussed that with regard to the first and second user being different, the intended receipient can be one or more users, which indicates a second user. With regard to determining information of a second user, the reference appears to indicate that email information is determined for the users, and that this is based on the information being updated (i.e. extracted data from the monitored data source), see col. 3 lines 26-41. Establishing a communication channel with the second user based at least in part on the data determined information is disclosed because the email is sent to the second user (intended recipients). Further suggested routes of amendments were discussed such as possibly adding that it's a second user sentiment and second user feedback; however no agreement was reached. Applicant's representative was invited to further discuss further proposed claims at a later date, if made, for better feedback. However no further meetings/proposed amendments in particular is yet scheduled or proposed at this time. Applicant's are advised to file a formal response for further consideration and/or search .

IPR2025-00623
UIPATH EXHIBIT 1002

SEYFARTH SHAW LLP
ATTORNEYS

2029 Century Park East, Suite 3500
Los Angeles, California 90067-3021
(310) 277-7200
Fax (310) 201-5219
www.seyfarth.com

Please deliver to Examiner MICHAEL PHAM

Facsimile Transmission

Date: September 14, 2016

RECIPIENT	COMPANY	PHONE NO.	FAX NO.
Examiner: **Michael Pham**	U.S. Patent and Trademark Office	571-272-3924	**571-273-3924**

FROM: Puya Partow-Navid, Esq.

PHONE: **310 201-1550**

RE: Agenda REPLY FAX NO.: 310 201-5219

File No: 79531-000022 **Number of Pages, Including Cover:** **9**

- ☐ Hard copy to follow
- ☐ Per your request
- ☐ Please telephone me
- ☒ Hard copy will not follow
- ☐ Please review and revise if necessary

MESSAGE:

RE: **APPLICATION NO. 14/960,309**

Attached is an Agenda for the upcoming Examiner Interview.

Interview - **September 21, 2016 - 2:00 p.m. (EST)**

THE INFORMATION CONTAINED IN THIS FACSIMILE IS CONFIDENTIAL AND MAY ALSO CONTAIN PRIVILEGED ATTORNEY-CLIENT INFORMATION OR WORK PRODUCT. THE INFORMATION IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHOM IT IS ADDRESSED. IF YOU ARE NOT THE INTENDED RECIPIENT OR THE EMPLOYEE OR AGENT RESPONSIBLE TO DELIVER IT TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY USE, DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THE FACSIMILE IN ERROR, PLEASE IMMEDIATELY NOTIFY US BY TELEPHONE, AND RETURN THE ORIGINAL MESSAGE TO US AT THE ADDRESS ABOVE VIA THE U.S. POSTAL SERVICE. THANK YOU.

ANY TAX INFORMATION OR WRITTEN TAX ADVICE CONTAINED HEREIN (INCLUDING ANY ATTACHMENTS) IS NOT INTENDED TO BE AND CANNOT BE USED BY ANY TAXPAYER FOR THE PURPOSE OF AVOIDING TAX PENALTIES THAT MAY BE IMPOSED ON THE TAXPAYER. (THE FOREGOING LEGEND HAS BEEN AFFIXED PURSUANT TO U.S. TREASURY REGULATIONS GOVERNING TAX PRACTICE.)

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15649067v.1

PAGE 1/9 * RCVD AT 9/14/2016 5:17:34 PM [Eastern Daylight Time] * SVR:W-PTOFAX-003/0 * DNIS:2733924 * CSID:310 201 5219 * DURATION (mm-ss):04-27

IPR2025-00623
UIPATH EXHIBIT 1002

PATENT
Docket No.: 79531-000022

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Sharon Gill Chadha et al.	Customer No.: 98275
Application No.: 14/960,309	Art Unit: 2167
Filed: December 4, 2015	Confirmation No.: 1063
For: REAL-TIME AND ADAPTIVE DATA MINING	Examiner: MICHAEL PHAM

Mail Stop Amendment
Commissioner for Patents6
P.O. Box 1450
Alexandria, VA 22313-1450

REPLY UNDER 37 C.F.R. 1.111

Dear Examiner,

The following is an agenda for the interview schedule for Sep. 21 at 2 PM (EST)

PAGE 2/9 * RCVD AT 9/14/2016 5:17:34 PM [Eastern Daylight Time] * SVR:W-PTOFAX-0030 * DNIS:2733924 * CSID:310 201 5219 * DURATION (mm-ss):01-27

IPR2025-00623
UIPATH EXHIBIT 1002

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of analyzing data, comprising:

generating, by a first user, a query based at least in part on a topic of interest;

executing the query on a plurality of data sources, at least one data source of the plurality of data sources being a private data source that is not accessible to a public search engine;

monitoring, based on a set schedule, at least one specific data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof; [[and]]

determining information of a second user based at least in part on the data extracted from the at least one monitored data source; and

establishing a communication channel, with [[a]] the second user, based at least in part on the data determined information ~~extracted from the at least one monitored data source.~~

[the other claims will be amended similar to claim 1]

2. (Previously Presented) The method of claim 1, further comprising:

analyzing the extracted data; and

receiving feedback from the user based at least in part on the established communication channel.

3. (Previously Presented) The method of claim 2, further comprising visualizing at least one of the extracted data, the analyzed data, or a combination thereof.

4. (Previously Presented) The method of claim 1, further comprising:

refining the search terms based at least in part on the executed query, and in which

PAGE 3/9 * RCVD AT 9/14/2016 5:17:34 PM [Eastern Daylight Time] * SVR:W-PTOFAX-003/0 * DNIS:2733924 * CSID:310 201 5219 * DURATION (mm-ss):01-27

IPR2025-00623
UIPATH EXHIBIT 1002

the monitoring is performed to monitor for matches to a refined query.

5. (Currently Amended) The method of claim 1, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that [[at]] are not publically accessible.

6. (Previously Presented) The method of claim 1, in which the query is a natural language query, and

further comprising translating the query to a system understood language.

7. (Previously Presented) The method of claim 1, in which the plurality of data sources are pre-defined.

8. (Previously Presented) The method of claim 1, further comprising:

expanding search terms of the query; and

selecting the at least one data source from the plurality of data sources, the at least one data source being selected when results of the query are greater than or equal to an accuracy thresholds.

9. (Previously Presented) The method of claim 8, in which expanding the query comprises expanding the search terms to include at least misspellings, synonyms, sub-topics, antonyms, or a combination thereof.

10. (Previously Presented) The method of claim 1, in which the monitoring comprises deploying extractors to each of specific data source, a number of extractors being dynamic based at least in part on a traffic volume of each specific data source.

11. (Previously Presented) An apparatus for analyzing data, the apparatus comprising:

a memory; and

at least one processor coupled to the memory, the at least one processor being configured:

to generate a query based at least in part on a topic of interest;

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to execute the query on a plurality of data sources;

to monitor, based on a set schedule, at least one specific data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof; and

to establish a communication channel, with a second user, based at least in part on the data extracted from the at least one monitored data source.

12. (Previously Presented) The apparatus of claim 11, in which the at least one processor is further configured:

to analyze the extracted data; and

to receive feedback from the user based at least in part on the established communication channel.

13. (Previously Presented) The apparatus of claim 12, in which the at least one processor is further configured to visualize at least one of the extracted data, the analyzed data, or a combination thereof.

14. (Previously Presented) The apparatus of claim 11, in which the at least one processor is further configured:

to refine the search terms based at least in part on the executed query,

to monitor for matches to a refined query.

15. (Previously Presented) The apparatus of claim 11, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that at not publically accessible.

16. (Previously Presented) A non-transitory computer-readable medium having program code recorded thereon for analyzing data, the program code being executed by a processor and comprising:

program code to generate a query based at least in part on a topic of interest;

program code to execute the query on a plurality of data sources;

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program code to monitor, based on a set schedule, at least one specific data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof; and

program code to establish a communication channel, with a second user, based at least in part on the data extracted from the at least one monitored data source.

17. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the program code further comprises:

program code to analyze the extracted data; and

program code to receive feedback from the user based at least in part on the established communication channel.

18. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the program code further comprises:

program code to refine the search terms based at least in part on the executed query,

program code to monitor for matches to a refined query.

19. (Currently Amended) The non-transitory computer-readable medium of claim 16, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that [[at]] are not publically accessible.

20. (Previously Presented) The non-transitory computer-readable medium of claim 16, in which the plurality of data sources are pre-defined.

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REMARKS

Claim Rejections - 35 U.S.C. § 102

Claims 1-7 and 10-20 are rejected under pre-AIA 35 U.S.C. § 102(b) as allegedly being anticipated by U.S. Patent No. 6,260,041 (*"Gonzalez"*). Applicants respectfully traverse these rejections and reconsideration and withdrawal of these rejections are respectfully requested.

As amended, claim 1 recites:

A method of analyzing data, comprising:

generating, by a first user, a query based at least in part on a topic of interest;

executing the query on a plurality of data sources;

monitoring, based on a set schedule, at least one specific data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof;

determining information of a second user based at least in part on the data extracted from the at least one monitored data source; and

establishing a communication channel, with the second user, based at least in part on the data determined information, the second user being different from the first user.

Page 8 of the Office Action alleges that Col. 1 lines 56-85 and Col. 2 lines 50-54 of Gonzalez disclose establish a communication channel, with a second user, based at least in part on the data extracted from the at least one monitored data source. Applicants provide the following remarks.

Col. 1 lines 56-58 disclose that a recipient receives an alert message. Furthermore, col. 2 lines 45-47 disclose that a client file generated by a user contains terms to be monitored by the FIRST system. Based on the monitored terms, intended recipients receive an alert when one of the monitored sites includes changed information (*see* Gonzalez, steps S36 and S37 of FIG. 3).

First, Gonzalez does not disclose that a first user generates the query and a communication channel is generated to communicate with a second user. That is, Gonzalez is

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silent on the user that generated the client file being different from the intended recipient of the alert. Thus, applicants believe that Gonzalez fails to disclose "generating, *by a first user*, a query based at least in part on a topic of interest" and "establishing a communication channel, with *the second user*, based at least in part on the data determined information, *the second user being different from the first user*."

Furthermore, at best, Gonzalez transmits the search results to the intended recipient. Gonzalez does not analyze the search results to determine information of a second user. Furthermore, Gonzalez does not establish a communication channel based on the determined information. Therefore, Gonzalez fails to teach or suggest "determining information of a second user based at least in part on the data extracted from the at least one monitored data source" and "establishing a communication channel, with the second user, based at least in part on the data determined information, the second user being different from the first user," as recited in claim 1.

Applicants would like to discuss the remarks and amendments with the examiner.

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CONCLUSION

The absence of a reply to a specific rejection, issue, or comment does not signify agreement with or concession of that rejection, issue, or comment. In addition, because the arguments above may not be exhaustive, there may be other reasons for patentability of any or all claims that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper, and the amendment or cancellation of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment or cancellation.

In light of the amendments and remarks, applicants submit that the claims are in condition for allowance and respectfully request a notice to this effect. Should the Examiner have any questions, please call the undersigned at the phone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. § 1.136 is submitted. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 19-1351 and please credit any excess fees to such deposit account.

Dated: _____

Respectfully submitted,

By: _____
Puya Partow-Navid, Reg. No. 59,657
Attorney for Applicants

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UNITED STATES PATENT AND TRADEMARK OFFICE

USPTO Automated Interview Request (AIR)

Sep 13 2016

This paper requesting to schedule and/or conduct an interview is appropriate because:

This submission is requested to be accepted as an authorization for this interview to communicate via the internet. Recognizing that Internet communications are not secure, I hereby authorize the USPTO to communicate with the undersigned concerning scheduling of the interview via video conference, instant messaging, or electronic mail, and to conduct the interview in accordance with office practice including video conferencing.

Name(s):
Puya Partow-Navid

S-signature:
/Puya PartowNavid/

Registration Number:
59657

U.S. Application Number:
14960309

Confirmation Number:
1063

E-mail Address:
ppartownavid@seyfarth.com

Phone Number:
3102011550

Proposed Time of Interview:
9-21-2016 2:00 PM ET

Prefered Interview Type:
Telephonic

I am the applicant or applicant's representative for this application.

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/960,309	12/04/2015	Sharon Gill CHADHA	79531-000022	1063

98275 7590 07/29/2016

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EXAMINER
PHAM, MICHAEL

ART UNIT	PAPER NUMBER
2167	

NOTIFICATION DATE	DELIVERY MODE
07/29/2016	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

laxipdocket@seyfarth.com

Office Action Summary	Application No. 14/960,309	Applicant(s) CHADHA ET AL.	
	Examiner MICHAEL PHAM	Art Unit 2167	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *12/4/15*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *12/04/15* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date *3/4/16*.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☒ Other: *third party ids 3/25/16*.

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Claim Status

1. Claims 1-20 are pending and have been examined.

Claim Objections

2. Claims 5 and 19 are objected to because of the following informalities: claim 5 recites at in line 2 of claim 5, however it appears to be a typo that should be an "are" instead of "at". Claim 19 does similar to claim 5. Appropriate correction is required.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321I or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) – 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

4. Claims 1-20 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-7, 9-15, and 19-21 of U.S. Patent No. U.S. Patent No. 9,229,977 by Chadha et. al. (hereafter Chadha). Although the claims at issue are not identical, they are not patentably distinct from each other because the claims are anticipated by U.S. Patent No. 9,229,977 by Chadha et. al. (hereafter Chadha).

Regarding claim 1, the limitation "generating a query based at least in part on a topic of interest" is anticipated by col. 20 line 13-14 of Chadha. The limitation "executing the query on a plurality of data sources" is anticipated by col. 20 line 16 of Chadha. Limitation "monitoring, based on a set schedule, at least one specific data source selected from the plurality of data sources matches the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof" is anticipated by col. 20 lines 21-25 of Chadha, while the "at least one specific data source selected from the plurality of data sources for matches to the query from the plurality of data sources", the broader limitation provided in col. 20 lines 21-25 of Chadha anticipates the limitation "at least one specific data source selected from the plurality of data sources for matches to the query from the plurality of data sources". Limitation ""establishing a communication channel, with a second user, based at least in part on the data extracted from the at least one monitored data source" is anticipated by col. 20 lines 26-28.

Claim 2 of the application is anticipated by claim 2 of Chadha.

Claim 3 of the application is anticipated by claim 3 of Chadha.

Claim 4 of the application is anticipated by claim 5 of Chadha.

Claim 5 of the application is anticipated by claim 6 of Chadha.

Claim 6 of the application is anticipated by claim 7 of Chadha.

Claim 8 of the application is anticipated by the limitations of claim 1 in col. 20 lines 15-20 of Chadha.

Claim 9 of the application is anticipated by claim 4 of Chadha.

Claim 10 of the application is anticipated by claim 9 of Chadha.

Regarding claim 11, the limitation "to generate a query based at least in part on a topic of interest" is anticipated by col. 20 line 64-65 of Chadha. The limitation "to execute the query on a plurality of data sources" is anticipated by col. 20 line 67 of Chadha. Limitation "to monitor, based on a set schedule, at least one specific data source selected from the plurality of data sources matches the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof" is anticipated by col. 21 lines 5-10 of Chadha, while the "at least one specific data source selected from the plurality of data sources for matches to the query from the plurality of data sources" differs, the broader limitation provided in col. 21 lines 5-10 of Chadha anticipates the limitation "at least one specific data source selected from the plurality of data sources for matches to the query from the plurality of data sources". Limitation "to establish a communication channel, with a second user, based at least in part on the data extracted from the at least one monitored data source" is anticipated by col. 21 lines 11-13.

Claim 12 of the application is anticipated by claim 11 of Chadha.

Claim 13 of the application is anticipated by claim 12 of Chadha.

Claim 14 of the application is anticipated by claim 14 of Chadha.

Claim 15 of the application is anticipated by claim 15 of Chadha.

Regarding claim 16, the limitation "program code to generate a query based at least in part on a topic of interest" is anticipated by col. 22 line 13-14 of Chadha. The limitation "to execute the query on a plurality of data sources" is anticipated by col. 20 line 67 of Chadha. Limitation "program code to monitor, based on a set schedule, at least one specific data source

selected from the plurality of data sources matches the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof" is anticipated by col. 22 lines 22-26 of Chadha, while the "at least one specific data source selected from the plurality of data sources for matches to the query from the plurality of data sources" differs, the broader limitation provided in col. 22 lines 22-26 of Chadha anticipates the limitation "at least one specific data source selected from the plurality of data sources for matches to the query from the plurality of data sources". Limitation "program code to establish a communication channel, with a second user, based at least in part on the data extracted from the at least one monitored data source" is anticipated by col. 22 lines 27-29.

Claim 17 of the application is anticipated by claim 20 of Chadha.

Claim 18 of the application is anticipated by claim 21 of Chadha.

Claim 19 of the application is anticipated by claim 6 of Chadha except that it recites a medium instead of the method.

Claim 20 of the application is anticipated by claim 7 of Chadha except that it recites a medium instead of the method.

Claim Rejections – 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claim(s) 1-7 and 10-20 is/are rejected under pre-AIA 35 U.S.C. 102 (b) as being anticipated by U.S. Patent 6260041 by Gonzalez et. al. (hereafter Gonzalez).

Claim 1 :

Gonzalez discloses:

"generating a query based at least in part on a topic of interest;"[generating a query (col. 2 lines 45-59, search terms) based at least in part on a topic of interest (col. 2 lines 45-59, concepts)]

"executing the query on a plurality of data sources;"[col. 4 lines 21-25, information found in step s33 to be related or otherwise pertinent to one or more of the desired search terms listed in client file 14 is culled out or returned from the resource location using any number of known techniques. Accordingly, executing the query (col. 4 lines 21-25, search terms) on a plurality of data resources (col. 4 lines 21-25 resource location)]

"monitoring, based on a set schedule, at least one specific data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof; and"[monitoring (first system monitor network), based on a set schedule (col. 1 line 51, periodic), at least one specific data source (col. 1 line 51, periodic access of each resource location listed) selected from the plurality of data sources (col. 2 line 60-61, listing of resources that are to be monitored) for matches to the query from the plurality of data sources to extract data from the at least one data source when

newly added data matches the query(col. 2 lines 50-54, determine whether any information on a particular relocation has been added that is pertinent to the desired search terms)]

"establishing a communication channel, with a second user, based at least in part on the data extracted from the at least one monitored data source." [establishing a communication channel (col. 1 line 56-85, alert message), with a second user (col. 1 line 56-58, recipient), based at least in part on the data extracted from the at least one monitored data source (col. 2 lines 50-54, any added information is returned to the server for processing. ..alert the recipient of the added information).]

Claim 2 :

Gonzalez discloses:

"analyzing the extracted data; and" [col. 5 lines 24-25. Accordingly analyzing (reviewing) the extracted data (the information in the alert data)]

"receiving feedback from the user based at least in part on the established communication channel." [receiving feedback from the user (col. 5 lines 24-26, user reviewing the information in the alert message may be presented with a series of input buttons in which to categorize information.) based at least in part on the established communication channel(col. 1 line 56-85, alert message)]

Claim 3 :

Gonzalez discloses: "The method of claim 2, further comprising visualizing at least one of the extracted data, the analyzed data, or a combination thereof." [visualizing (col. 4 lines 52-55, composed message may provide a copy) at least one of the extracted data (col. 4 lines 52-55,

information found to be new)]

Claim 4 :

Gonzalez discloses: "refining the search terms based at least in part on the executed query, and in which the monitoring is performed to monitor for matches to a refined query." [refining the search terms (col. 2 line 53, additional search terms) based at least in part on the executed query (col. 4 lines 21-25, search terms), and in which the monitoring is performed to monitor (col. 2 line 56, monitor) for matches to a refined query (col. 2 lines 56-58, information pertinent to the listed search terms)]

Claim 5 :

Gonzalez discloses: "The method of claim 1, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that at not publically accessible."[in which the plurality of data sources include open-source data sources that are publically available (col. 2 lines 64-66, websites, individual web pages, message boards, locations of discussions groups) and closed-source data sources that at not publically accessible (col. 2 line 67, email messages)]

Claim 6 :

Gonzalez discloses: "The method of claim 1, in which the query is a natural language query, and further comprising translating the query to a system understood language." [in which the query is a natural language query (col. 2 lines 51-53, user could enter…as desired search terms), and further comprising translating the query to a system understood language (figure 4; col. 3 lines 50-53, identify the different search terms or concepts)]

Claim 7 :

Gonzalez discloses: "The method of claim 1, in which the plurality of data sources are pre-defined."[col. 2 lines 60-61, client files further include a listing of resources that are to be monitored. Accordingly, in which the plurality of data sources (resources) are pre-defined (include a listing of resources)]

Claim 10 :

Gonzalez discloses "The method of claim 1, in which the monitoring comprises deploying extractors to each of specific data source, a number of extractors being dynamic based at least in part on a traffic volume of each specific data source."[in which the monitoring (figure 1) comprises deploying extractors to each of specific data source (col. 3 line 8-11, in accessing each resource, one or more bots are used), a number of extractors (col. 3 line 11, bots) being dynamic (col. 3 lines14-16, assigned to perform a single script…could permit multiple scripts) based at least in part on a traffic volume (col. 3 lines14-16, single script/multiple script) of each specific data source (col. 3 line 8-11, each resource)]

Claims 11-15 :

Claims 11-15 recite similar limitations to those of claims 1-5 above respectively, except claims 11-15 are directed to an apparatus instead of a system. Claims 11-15 are rejected under similar rationale as that of claims 1-5.

Claims 16-20 :

Claims 16-20 recite similar limitations to those of claims 1-2, 4-5, and 7 respectively, except they are directed to a non-transitory computer –readable medium instead of a method. Claims 16-20 are rejected under similar rationale as that of claims 1-2, 4-5, and 7

Claim Rejections – 35 USC § 103

7. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 8-9 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6260041 by Gonzalez et. al. (hereafter Gonzalez) further in view of U.S. Patent 8788657 by Hodges et. al. (hereafter Hodges).

Claim 8 :

Gonzalez discloses: "The method of claim 1, further comprising: expanding search terms of the query; and" [col. 2 line 53, desired search terms, together with any additional search terms]

"selecting the at least one data source from the plurality of data sources," [col. 2 lines 60-61, listing of resources that are to be monitored]

Gonzalez does not explicitly disclose "the at least one data source being selected when results of the query are greater than or equal to an accuracy thresholds."

On the other hand, Hodges discloses "the at least one data source being selected when results of the query are greater than or equal to an accuracy thresholds." [the at least one data

source (col. 12 line 47, contacts database) being selected (col. 11 lines 37-38, notification concerning the communications to a parent or other monitoring entity) when results of the query (col. 11 line 31, result in a determination of bullying activity)are greater than or equal to an accuracy thresholds (col. 11 line 31, threshold-exceeding classifier scores can be required to result in a determination of bullying activity)]

Both Gonzalez and Hodges are directed towards systems that monitor data and report information back. Gonzalez is directed towards a system of monitoring and reporting data generically. Gonzalez does not explicitly disclose selecting data sources based on a threshold. Hodges discloses monitoring and reporting information based on thresholds. It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have modified Gonzalez to the disclosure of Hodges for the purpose of tracking and reporting activity by considering frequency of triggers, col. 11 lines 23-25. .

Claim 9 :

The combination of Gonzalez and Hodge disclose in Gonzalez "The method of claim 8, in which expanding the query comprises expanding the search terms to include at least misspellings, synonyms, sub-topics, antonyms, or a combination thereof. "[in which expanding the query comprises expanding the search terms (col. 2 line 53, additional search terms) to include at least misspellings, synonyms, sub-topics (col. 2 line 54, stock symbol; stock symbol is subtopic of company name)]

Conclusion

9. The prior art made of record listed on pto-892 and not relied, if any, upon is considered pertinent to applicant's disclosure.

Contact Information

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL PHAM whose telephone number is (571)272-3924. The examiner can normally be reached on 11am-7pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on 571-272-3645. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. P./
Examiner, Art Unit 2167

/ROBERT BEAUSOLIEL JR/

IPR2025-00623
UIPATH EXHIBIT 1002

Supervisory Patent Examiner, Art Unit 2167

IPR2025-00623
UIPATH EXHIBIT 1002

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	Examiner MICHAEL PHAM	Art Unit 2167	Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-8,788,657 B2	07-2014	Hodges; Daniel	G06F21/604	709/223
*	B	US-9,229,977 B2	01-2016	Chadha; Sharon Gill	G06F17/30536	1/1
	C	US-				
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
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CONFIRMATION NO. 1063

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/960,309	12/04/2015	707	2167	79531-000022

APPLICANTS
Rule 14, Santa Monica, CA;

INVENTORS
Sharon Gill CHADHA, Santa Monica, CA;
Xin CHENG, San Diego, CA;
Parvinder CHADHA, Santa Monica, CA;

**** CONTINUING DATA ***************************
This application is a CIP of 13/928,313 06/26/2013 PAT 9229977
which claims benefit of 61/679,024 08/02/2012

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** SMALL ENTITY **
12/14/2015

Foreign Priority claimed	☐ Yes ☑ No	☐ Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met	☐ Yes ☑ No					
Verified and Acknowledged	/MICHAEL PHAM/ Examiner's Signature	Initials	CA	14	20	3

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2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3063
UNITED STATES

TITLE
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14960309	CHADHA ET AL.
	Examiner	Art Unit
	MICHAEL PHAM	2167

CPC- SEARCHED		
Symbol	Date	Examiner
G06F17/30672, G06F17/30442, and G06F17/30796	7/25/2016	MP

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
707	722, 765	7/25/2016	MP

SEARCH NOTES		
Search Notes	Date	Examiner
npl search (google, google scholar, ip.com)	7/25/2016	MP
East search	7/25/2016	MP
G06F17/30672, G06F17/30442, and G06F17/30796 see search history printouts	7/25/2016	MP
707/722, 765 see search history printouts	7/25/2016	MP
	7/25/2016	MP

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
G06F	17/30672, 17/30442, and 17/30796 uspat uspgpub	7/25/2016	MP
707	722, 765	7/25/2016	MP

IPR2025-00623
UIPATH EXHIBIT 1002

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14960309	CHADHA ET AL.
	Examiner	Art Unit
	MICHAEL PHAM	2167

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	07/25/2016								
	1	✓								
	2	✓								
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	4	✓								
	5	✓								
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	18	✓								
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	20	✓								

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Apr 4, 2004 - Thus, the **monitoring** of the web is likely to raise new challenges for many years. We consider ... A lot of web **data** is typically retrieved as a result of **queries**, in particular **queries** to ... competitors). Such applications combine web **monitoring** with **data mining** and ... willing to share **data resources** with other peers. Bringing ...

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[PDF] Data Stream Management Systems
www.uio.no/studier/emner/matnat/ifi/INF5100/h06/.../DSMS.pdf University of Oslo
Feb 28, 2006 - Monitoring of sensor data from many sources, complex filtering, ... Analyzing Internet traffic in near real-time to compute traffic ... Scalability: shared execution of many continuous queries; monitoring ... Limited memory selection/sorting: n-pass quantiles ... Mechanism for extracting a finite relation from an infinite stream.

[PDF] Slides
www.uio.no/studier/emner/matnat/ifi/.../DSMS-INF5100-H10.pdf University of Oslo
Oct 15, 2008 - Concepts: Data Model, Query Processing, Windows ... Monitoring of sensor data from many sources, complex filtering, ... Network Traffic Analysis: ... Update interval: eager (update for each new arriving tuple) ... Mechanism for extracting a finite relation from an infinite stream ... A single stream aggregate query "select G,F.

Use Dynamic Management Views (DMVs) to Monitor Analysis Services
https://msdn.microsoft.com/en-us/.../hh230620.aspx Microsoft Developer Network
Mar 6, 2012 - For most DMV queries, you use a SELECT statement and the $System schema with an XML/A schema ... The query engine for DMVs is the Data Mining parser.
Missing: extractor frequency traffic

Optimizing Microsoft Office Access Applications Linked to SQL Server
https://technet.microsoft.com/en-us/.../bb188204(v=sql.90).aspx Microsoft TechNet
Nov 30, 2006 - Add Custom Data Mining Algorithms to SQL Server 2005 .... by moving your Office Access data to new SQL Server tables and linking to these tables. ... After making this change in the registry, queries submitted to any ODBC data source ..... Server data with data in local Office Access tables or in other linked data sources.

[PDF] Data Streams, Complex Events, and BI - Alta Plana
altaplana.com/TT-DataStreamsComplexEventsBI.pdf
Jun 11, 2008 - Data involved simulated orbit altitude, inclination, duration. ... Highway Traffic Safety Administration. ... Observations are at calendar frequencies: yearly, monthly, weekly ... Data streams come from many sources. ... New, complex information types. ... BI differs from monitoring: it contextualizes information. ... SELECT Windin.

[PDF] Text Mine Your Big Data - SAS
www.sas.com/content/dam/SAS/.../text-mine-your-big-data-106554.pdf SAS Institute
Jun 15, 2011 - SAS® High-Performance Text Mining in Action . ... need new data sources, more sophisticated data preparation, increased computing power to test new ideas ...

[PDF] A Study of Application of Web Mining for E-Commerce - IJCIM
www.ijcim.th.org/past_editions/2002V10N3/article_01_sep02.pdf
by SM Au - Cited by 2 - Related articles
Sep 2, 2001 - create new products that match the results of ... to extract information from the database. Data ... queries of the users with their stored ... application of ordinary data mining to the web data. The lack of structure and ... Table 1: Some Web log / Web site traffic analysis programs ..... researchers need to select data sources from.

[PDF] Data Stream Query Processing - AT&T Labs Research
www.research.att.com/people/Srivastava.../ks2005-streamqp-tutorial-talk.pdf AT&T
by N Koudas - Cited by 86 - Related articles
Apr 15, 2005 - Web: accesses by clients of resources at servers. ◦ Measurement data streams: monitor evolution of entity states. ◦ IP network: traffic at router interfaces.

[PS] An Overview of Data Warehousing and OLAP Technology
www.cs.columbia.edu/.../15%20-%20An%20Overview%20of%2... Columbia University
by S Chaudhuri - Cited by 3158 - Related articles
Apr 1, 2002 - extracting, cleaning and loading data into a data warehouse; ... for efficient query processing; and tools for metadata .... than selecting an OLAP server and defining a schema and ... Finally,. a good source of references on data warehousing and OLAP ... Monitoring & Administration ... considered variants of data mining tools.

Deliver an effective and flexible data warehouse solution, Part 1 - IBM
www.ibm.com/developerworks/data/library/techarticle/dm-0506gong/ IBM
Jun 16, 2005 - In a well structured BI system, the data warehouse serves as a single source for ... OLAP, advanced data mining, data Extraction, Transformation, and Loading (ETL), ... After you

deploy the data warehouse solution, the project may start on new ... source data traffic and update frequency, data security, and data quality. Data ...

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[PDF] Data Stream Management Systems
www.uio.no/studier/emner/matnat/ifi/INF5100/h06/.../DSMS.pdf University of Oslo
Feb 28, 2006 - Monitoring of sensor data from many sources, complex filtering, ... Analyzing Internet traffic in near real-time to compute traffic ... Scalability: shared execution of many continuous queries; monitoring ... Limited memory selection/sorting: n-pass quantiles ... Mechanism for extracting a finite relation from an infinite stream.

A geometric approach to monitoring threshold functions over ...
dl.acm.org/citation.cfm?id=1142508 Association for Computing Machinery
by I Sharfman - 2006 - Cited by 187 - Related articles
Jun 27, 2006 - Monitoring data streams in a distributed system is the focus of much research in recent years. .... Monitoring streams - a new class of data management applications. ... Query processing, resource management, and approximation in a data stream ... Distributed threshold selection for aggregate threshold monitoring in sensor ...

[PDF] Text Mine Your Big Data - SAS
www.sas.com/content/dam/SAS/.../text-mine-your-big-data-106554.pdf SAS Institute
Jun 15, 2011 - SAS® High-Performance Text Mining in Action ... need new data sources, more sophisticated data preparation, increased computing power to test new ideas ...

[PDF] A Study of Application of Web Mining for E-Commerce - IJCIM
www.ijcim.th.org/past_editions/2002V10N3/article_01_sep02.pdf
by SM Au - Cited by 2 - Related articles
Sep 2, 2001 - create new products that match the results of ... to extract information from the database. Data ... queries of the users with their stored ... application of ordinary data mining to the web data. The lack of structure and ... Table 1: Some Web log / Web site traffic analysis programs ..... researchers need to select data sources from.

[PDF] Research Issues in Data Stream Association Rule Mining
sigmod.org/publications/.../0603/p14-article-gruenwald.pdf ACM SIGMOD Online
by N Jiang - 2006 - Cited by 262 - Related articles
Mar 10, 2006 - require association rule mining, such as network traffic monitoring and web click streams analysis. Different from ... applications on mining data streams grows rapidly, there is ... speed of online queries. .... here is to find a way to extract transactions for association ... the itemsets are changing with time when new stream data.

User Guide for Cisco Network Analysis Module Traffic Analyzer, 5.0 ...
www.cisco.com › ... › Maintain and Operate › End-User Guides Cisco Systems
Jan 24, 2011 - The Monitor dashboards allow you to view network traffic, application ... You can also include multiple types of data sources in the site definition, and you can then ... (NetFlow Data Export) packets is a new feature for NAM Traffic Analyzer 5.0. ... The NDE Descriptor defines the data query that remains in effect as long as the ...

Appendices - TechNet - Microsoft
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Apr 27, 2005 - In both Oracle and SQL Server, the physical database is structured as data files. system ... as well as extracting the optimal performance out of the SQL Server platform. ... There is only one copy each of the English Query and Microsoft SQL Server ..... Used on resources that can be updated, such as SELECT. ..... Frequency.

SQL Server 2008 Management Data Warehouse - TechNet - Microsoft
https://technet.microsoft.com/en-us/.../dd939169(v=sql.100).aspx Microsoft TechNet
Jun 13, 2009 - SQL Server 2008 introduces the Management Data Warehouse (MDW) to ... Query performance statistics and use of indexes; Resource locking and ... However, you can create a new database, and reconfigure the data collector to ... control the collection frequency on the target and performs the upload of data to the MDW.

[PDF] A Flexible Data Mining Architecture for Monitoring Data Streams
citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.131.5161&rep=rep1...
by A Bulut - 2005 - Cited by 5 - Related articles
Jun 15, 2005 - agement, faults and alarms in network traffic management, transactions in retail ... levels of information over streams of data in order to answer queries ..... 3.9 Precision vs. factor of threshold on detecting bursts of events on ... 4.2 Execution trace on SWAT with a sliding window N = 16 for 5 new data .... of network resources.

Space Physics Interactive Data Resource—SPIDR | SpringerLink
link.springer.com/article/10.1007/s12145-008-0012-5 Springer Science+Business Media
by M Zhizhin - 2008 - Cited by 6 - Related articles
Sep 15, 2008 - SPIDR (Space Physics Interactive Data Resource) is a standard data source for ... built to select, visualize and model historical space weather data distributed across ... Grid data mining Phenomena-based subsetting Product generation Satellite ... and total data holdings of about ~1 Gb and annual data traffic ~1 Mb/year, ...

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[PDF] Data Stream Management Systems
www.uio.no/studier/emner/matnat/ifi/INF5100/h06/.../DSMS.pdf University of Oslo
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[PDF] Research Issues in Data Stream Association Rule Mining
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Mar 10, 2006 - There exist emerging applications of data streams that require association rule mining, such as network traffic monitoring and web click streams analysis.

[PDF] Querying and Mining Data Streams: You Only Get One Look
www.cse ust.hk/.../T5garofalakis.pd... Hong Kong University of Science and Technology
Jan 1, 2002 - Goal: Mine patterns, process queries and compute statistics on data streams in real-time ... If size of sample S exceeds M, select new threshold T' > T ◦ For each ...

[PDF] Predictive Analytics: Extending the Value of Your Data ... - SAS
https://www.sas.com/events/cm/174390/assets/102892_0107.pdf SAS Institute
by WW Eckerson - Cited by 57 - Related articles
Oct 28, 1992 - experience and has covered data warehousing and business intelligence ... Measuring, Monitoring, and Managing Your Business, published by John ... single conference, TDWI is now a comprehensive resource for industry .... They use query, ... Data Preparation: Select, extract, and transform data upon which to create ...

[PDF] A Study of Application of Web Mining for E-Commerce - IJCIM
www.ijcim.th.org/past_editions/2002V10N3/article_01_sep02.pdf
by SM Au - Cited by 2 - Related articles
Sep 2, 2001 - rules relating to the behavior of customers, ... to extract information from the database. Data ... propose a new methodology based on ... application of ordinary data mining to the web data. The lack of structure and ... Table 1: Some Web log / Web site traffic analysis programs .... researchers need to select data sources from.

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https://technet.microsoft.com/en-us/.../dd939169(v=sql.100).aspx Microsoft TechNet
Jun 13, 2009 - SQL Server 2008 introduces the Management Data Warehouse (MDW) to ... Query performance statistics and use of indexes; Resource locking and ... However, you can create a new database, and reconfigure the data collector to ... control the collection frequency on the target and performs the upload of data to the MDW.

pdf - arXiv.org
https://arxiv.org/pdf/1109.5679 arXiv
by A Ismail - 2011 - Cited by 6 - Related articles
Mar 15, 1997 - Internet traffic. ... Peer-to-peer systems, Data mining, hypergraphs, Query routing ... network is the sharing of resources (files, databases) distributed on Peers by .... its frequency is at least the frequency threshold, noted minfr, set by the user. .... association rule mining [43] and local l2 norm monitoring over P2P networks [42].

[PDF] Real-time Behavior Profiling for Network Monitoring - Arizona State ...
www.public.asu.edu/~kxu01/papers/2010/IJIPT2010.pdf Arizona State University
by F Yu - 2010 - Cited by 5 - Related articles
Apr 18, 2010 - The system uses flow-level information, and applies data mining and ... Keywords: real-time traffic monitoring; behaviour profiling; profiling-aware filtering.

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paul.rutgers.edu/~elman/elman03sensor_survey.pdf
by E Elnahrawy - Cited by 22 - Related articles
Jun 15, 2003 - A typical framework of sensor streams is data obtained from wireless ... a major source of information for databases. ... resource constraints of sensor networks, especially energy constraint, and their ... finally, our recent work on handling of erroneous sensors. .... contamination is sampled at much lower frequency [14].

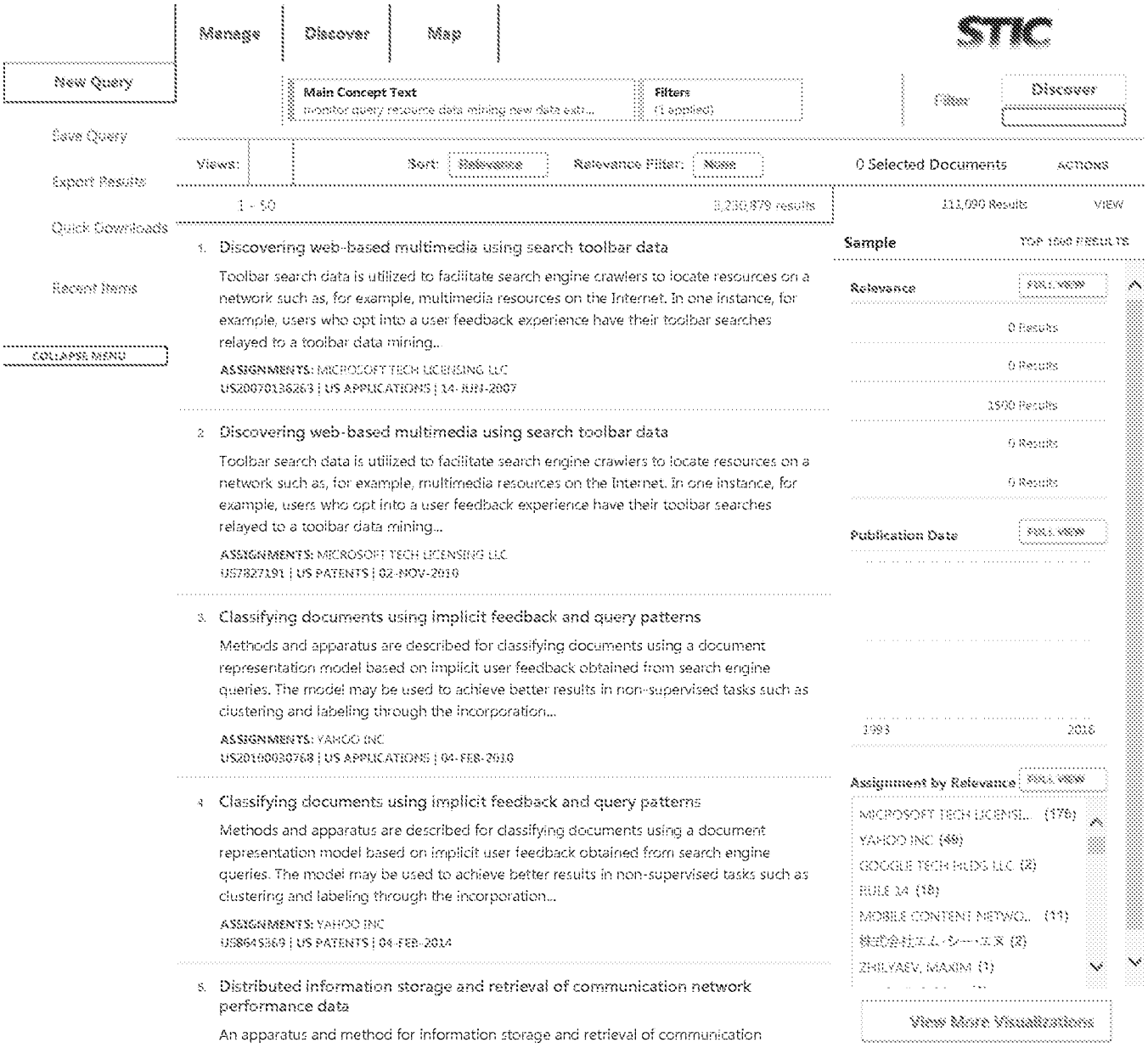
Executing incoherency bounded continuous queries at web data ...
dl.acm.org/citation.cfm?id=1060758 Association for Computing Machinery
by R Gupta - 2005 - Cited by 32 - Related articles

May 10, 2005 - WWW '05 Proceedings of the 14th international conference on World Wide Web ... Continuous **queries** are used to **monitor** changes to time varying **data** and to provide ... But, since these **queries** involve **data** from multiple sources, with sources .... Mukesh Mohania, Ratio **threshold** queries over distributed **data** sources. ...

Data Mining White Paper
Ad www.sas.com/data-mining
"Data Mining from A to Z." Learn the Ins and Outs from SAS.
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Map
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New Query
Main Concept Text
monitor query resource data mining new data extr...
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Quick Downloads
Recent Items
COLLAPSE MENU
Views:
Sort:
Relevance
Relevance Filter:
None
0 Selected Documents
Actions
1 - 50
8,230,879 results
111,090 Results
VIEW
1. Discovering web-based multimedia using search toolbar data
Toolbar search data is utilized to facilitate search engine crawlers to locate resources on a network such as, for example, multimedia resources on the Internet. In one instance, for example, users who opt into a user feedback experience have their toolbar searches relayed to a toolbar data mining...
ASSIGNMENTS: MICROSOFT TECH LICENSING LLC
US20070136263 | US APPLICATIONS | 14-JUN-2007
2. Discovering web-based multimedia using search toolbar data
Toolbar search data is utilized to facilitate search engine crawlers to locate resources on a network such as, for example, multimedia resources on the Internet. In one instance, for example, users who opt into a user feedback experience have their toolbar searches relayed to a toolbar data mining...
ASSIGNMENTS: MICROSOFT TECH LICENSING LLC
US7827191 | US PATENTS | 02-NOV-2010
3. Classifying documents using implicit feedback and query patterns
Methods and apparatus are described for classifying documents using a document representation model based on implicit user feedback obtained from search engine queries. The model may be used to achieve better results in non-supervised tasks such as clustering and labeling through the incorporation...
ASSIGNMENTS: YAHOO INC
US20100030768 | US APPLICATIONS | 04-FEB-2010
4. Classifying documents using implicit feedback and query patterns
Methods and apparatus are described for classifying documents using a document representation model based on implicit user feedback obtained from search engine queries. The model may be used to achieve better results in non-supervised tasks such as clustering and labeling through the incorporation...
ASSIGNMENTS: YAHOO INC
US8645369 | US PATENTS | 04-FEB-2014
5. Distributed information storage and retrieval of communication network performance data
An apparatus and method for information storage and retrieval of communication network performance data includes a first step 200 of obtaining performance data from network entities. A next step 202 includes generating a rating for the performance data relating to how interesting that data is to...
ASSIGNMENTS: GOOGLE TECH HLDG LLC
US8050191 | US PATENTS | 01-NOV-2011
6. Distributed information storage and retrieval of communication network performance data
An apparatus and method for information storage and retrieval of communication network performance data includes a first step 200 of obtaining performance data from network entities. A next step 202 includes generating a rating for the performance data relating to how interesting that data is to...
ASSIGNMENTS: GOOGLE TECH HLDG LLC
US20100302954 | US APPLICATIONS | 02-DEC-2010
7. Real-time and adaptive data mining
A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...
ASSIGNMENTS: RULE 14
US20160085824 | US APPLICATIONS | 24-MAR-2016
Sample
TOP 1000 RESULTS
Relevance
FULL VIEW
0 Results
0 Results
1000 Results
0 Results
0 Results
Publication Date
FULL VIEW
1993
2016
Assignment by Relevance
FULL VIEW
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7. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

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US20160085820 | US APPLICATIONS | 24-MAR-2016

8. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

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US20160085826 | US APPLICATIONS | 24-MAR-2016

10. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

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US20160085818 | US APPLICATIONS | 24-MAR-2016

11. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

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US20160085804 | US APPLICATIONS | 24-MAR-2016

12. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

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US20160085805 | US APPLICATIONS | 24-MAR-2016

13. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

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US20160085825 | US APPLICATIONS | 24-MAR-2016

14. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

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US20160085822 | US APPLICATIONS | 24-MAR-2016

15. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

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16. Real-time and adaptive data mining

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A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

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US20160085821 | US APPLICATIONS | 24-MAR-2016

17. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

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US20160085823 | US APPLICATIONS | 24-MAR-2016

18. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

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US20160085806 | US APPLICATIONS | 24-MAR-2016

19. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

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US20160085827 | US APPLICATIONS | 24-MAR-2016

20. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

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US20160085819 | US APPLICATIONS | 24-MAR-2016

21. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20140040301 | US APPLICATIONS | 06-FEB-2014

22. **Technique for determining relevant advertisements in response to queries**

ASSIGNMENTS: MOBILE CONTENT NETWORKS INC
JP2008165737A | JAPANESE APPLICATIONS | 17-JUL-2008

23. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US9229977 | US PATENTS | 05-JAN-2016

24. **Techniques for determining relevant advertisements in response to queries**

Techniques for determining relevant advertisements in response to queries is disclosed. According to an exemplary embodiment of the present disclosure, the techniques may be realized as a computer implemented method for determining relevant advertisements in response to a query. The method may...

ASSIGNMENTS: MOBILE CONTENT NETWORKS INC

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25. In response to the query, to determine the advertisement that is relevant technology

Techniques for determining relevant advertisements in response to queries is disclosed. According to an exemplary embodiment of the present disclosure, the techniques may be realized as a computer implemented method for determining relevant advertisements in response to a query. The method may...

ASSIGNMENTS: [illegible]
JP5312777B2 | JAPANESE PATENTS | 09-OCT-2013

26. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
WO2014210184A2 | WIPO APPLICATIONS | 31-DEC-2014

27. Access to information by quantitative analysis of enterprise web access traffic

A method for improving search quality by quantitative analysis of enterprise web access traffic is disclosed. This invention relates to the field of data processing systems and more particularly to the field of knowledge management in corporate or enterprise. Performing search on heterogeneous data...

ASSIGNMENTS: ZHILYAEV, MAXIM [+1]
US20110282869 | US APPLICATIONS | 17-NOV-2011

28. System and method for optimizing performance monitoring of complex information technology systems

A system and method for optimizing the performance monitoring of complex information technology (IT) systems. System components and elements are subject to periodic monitoring associated with performance thresholds. A continuity analysis is performed by synchronizing testing functions associated...

ASSIGNMENTS: PEROT SYS CORP
EP1058886A1 | EUROPEAN APPLICATIONS | 13-DEC-2000

29. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
EP3014414A2 | EUROPEAN APPLICATIONS | 04-MAY-2016

30. System and method for optimizing performance monitoring of complex information technology systems

A system and method for optimizing the performance monitoring of complex information technology (IT) systems. System components and elements are subject to periodic monitoring associated with performance thresholds. A continuity analysis is performed by synchronizing testing functions associated...

ASSIGNMENTS: PEROT SYS CORP
WO1999045488A1 | WIPO APPLICATIONS | 10-SEP-1999

31. System and method for generating performance models of complex information technology systems

A system and method for automatically creating performance models of complex information technology (IT) systems. System components and elements are subject to periodic monitoring associated with performance thresholds. A continuity analysis is performed by synchronizing testing functions associated...

ASSIGNMENTS: DELL SYS CORP
US6311175 | US PATENTS | 30-OCT-2001

32. System and architecture for enterprise-scale, parallel data mining

A grid-based approach for enterprise-scale data mining that leverages database technology for I/O parallelism and on-demand compute servers for compute parallelism

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In the statistical computations is described. By enterprise-scale, we mean the highly-[illegible] and [illegible] mining in [illegible] business...

ASSIGNMENTS: INTL BUSINESS MACHINES CORP
US20070174290 | US APPLICATIONS | 26-JUL-2007

35. **Techniques for determining relevant advertisements in response to queries**

Techniques for determining relevant advertisements in response to queries is disclosed. According to an exemplary embodiment of the present disclosure, the techniques may be realized as a computer implemented method for determining relevant advertisements in response to a query. The method may...

ASSIGNMENTS: MOBILE CONTENT NETWORK INC
WO2008057268A2 | WIPO APPLICATIONS | 15-MAY-2008

34. **System and method for optimizing performance monitoring of complex information technology systems**

ASSIGNMENTS: PEROT SYS CORP
EP1558886B1 | EUROPEAN PATENTS | 26-JAN-2005

35. **Dynamically generating pre-aggregated datasets**

Methods, systems, and apparatus, including computer programs encoded on a computer storage medium, for dynamically generating and configuring pre-aggregated datasets optimized for responding to particular types of data requests made against a large sub-optimal multidimensional dataset are disclosed...

ASSIGNMENTS: GOOGLE INC
US8521774 | US PATENTS | 27-AUG-2013

36. **Extracting Query Dimensions from Search Results**

Techniques are described for automatically mining query dimensions from web pages resulting from execution of a search query. Lists of items such as words, terms, or phrases are extracted from the web pages based on the recognition of free text, metadata tag, or repeated region patterns within the...

ASSIGNMENTS: MICROSOFT TECH LICENSING LLC
US20130173605 | US APPLICATIONS | 04-JUL-2013

37. **A method for storing of data mining models**

Computerized methods, data processing systems, and computer program products for storing of data mining models (DMMs) are provided. A new DMM is created having at least one of the following characteristics: quality and complexity. The new DMM is handled as a candidate for storing in storage means if...

ASSIGNMENTS: INTL BUSINESS MACHINES CORP
IN2878CH2010A | INDIAN APPLICATIONS | 30-SEP-2011

38. **Method and apparatus for generating configuration rules for computing entities within a computing environment using association rule mining**

A method and apparatus for generating computer configuration rules comprising receiving configuration data regarding a plurality of computers, analyzing the configuration data to determine associations within the configuration data, and generating configuration rules from a result of the analysis.

ASSIGNMENTS: SYMANTEC CORP
US8051028 | US PATENTS | 01-NOV-2011

39. **Method and apparatus for generating configuration rules for computing entities within a computing environment using association rule mining**

A method and apparatus for generating computer configuration rules comprising receiving configuration data regarding a plurality of computers, analyzing the configuration data to determine associations within the configuration data, and generating configuration rules from a result of the analysis.

ASSIGNMENTS: SYMANTEC CORP
EP1998252A1 | EUROPEAN APPLICATIONS | 03-DEC-2008

40. **Implicit links search enhancement system and method for search engines using implicit links generated by mining user access patterns**

An implicit links enhancement system and method for search engines that generates implicit links obtained from mining user access logs to facilitate enhanced local searching of web sites and intranets. The implicit links search enhancement system and method includes extracting implicit links by...

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ASSIGNMENTS: MICROSOFT TECH LICENSING LLC
Manage | Choose | 09-SEP-Map

New Query
Save Query
Export Results
Quick Downloads
Recent Items
COLLAPSE MENU

41. **Selective storing of mining models for enabling interactive data mining**

A new data mining model (DMM) is created having at least one of the following characteristics: quality and complexity. The new DMM is handled as a candidate for storing in a storage device if a predefined criterion for the characteristics is met. The sum of the sizes of the new DMM and already...

ASSIGNMENTS: INTL BUSINESS MACHINES CORP
US8533988 | US PATENTS | 17-SEP-2013

42. **Method and apparatus for generating configuration rules for computing entities within a computing environment using association rule mining**

A method and apparatus for generating computer configuration rules comprising receiving configuration data regarding a plurality of computers, analyzing the configuration data to determine associations within the configuration data, and generating configuration rules from a result of the analysis.

ASSIGNMENTS: SYMANTEC CORP
US20080301081 | US APPLICATIONS | 04-DEC-2008

43. **Selective Storing of Mining Models for Enabling Interactive Data Mining**

Computerized methods, data processing systems, and computer program products for storing of data mining models (DMMs) are provided. A new DMM is created having at least one of the following characteristics: quality and complexity. The new DMM is handled as a candidate for storing in a storage device...

ASSIGNMENTS: INTL BUSINESS MACHINES CORP
US20110153664 | US APPLICATIONS | 23-JUN-2011

44. **Method and apparatus for information mining and filtering**

A method and system for computer-assisted analysis of information from a data source employs operators including search terms and filters. A visual representation of a network of operators is generated, the operators being user selectable and linked to form the network, which is configured to...

ASSIGNMENTS: JUSTSYSTEM EVANS RESEARCH INC [+3]
US7464096 | US PATENTS | 09-DEC-2008

45. **Selective Storing of Mining Models for Enabling Interactive Data Mining**

A new data mining model (DMM) is created having at least one of the following characteristics: quality and complexity. The new DMM is handled as a candidate for storing in a storage device if a predefined criterion for the characteristics is met. The sum of the sizes of the new DMM and already...

ASSIGNMENTS: INTL BUSINESS MACHINES CORP
US20130018917 | US APPLICATIONS | 17-JAN-2013

46. **Metadata integration tool, systems and methods for managing enterprise metadata for the runtime environment**

A metadata integration tool identifies database communications in a network runtime environment and forwards information about identified database communications to a data store. Although the data is accessed from disparate programs and database technologies, the linkage between programs and data is...

ASSIGNMENTS: HOME DEPOT U INC DA
US20080065616 | US APPLICATIONS | 13-MAR-2008

47. **Proxy communication detection**

Systems, methods and apparatus for a distributed security that provides security processing external to a network edge. The system can identify requests, such as HTTP requests, and can identify embedded resource request identifiers, such as embedded URLs. The embedded resource request identifiers...

ASSIGNMENTS: ZSCALER INC
US8230506 | US PATENTS | 24-JUL-2012

48. **Selective storing of mining models for enabling interactive data mining**

PURPOSE: A computerized method for selective storing of mining models for enabling interactive data mining is provided to save data mining models through a storage unit of a data processing system and a data processing unit. CONSTITUTION: A first data mining model having at least one feature between...

ASSIGNMENTS: INTL BUSINESS MACHINES CORP

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48. **Generalized data mining and analytics apparatuses, methods and systems**

The GENERALIZED DATA MINING AND ANALYTICS APPARATUSES, METHODS AND SYSTEMS ("GDMA"), in various embodiments, may identify statistical relationships among query terms by analyzing a corpus of electronic documents. Inputs may be automatically generated automatically and/or user provided. In one...

ASSIGNMENTS: QUANTIFIND INC
US9183203 | US PATENTS | 10-NOV-2015

50. **Detection of embedded resource location data**

Systems, methods and apparatus for a distributed security that detects embedded resource request identifiers. The system can identify requests, such as HTTP requests, and can identify encoded prefix data corresponding to URI prefixes, such as Base64 or Base16 encoded URI prefixes "www." and "http:".

ASSIGNMENTS: ZSCALER INC
US8793488 | US PATENTS | 29-JUL-2014

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Manage | Discover | Map

STIC

New Query

Main Concept Text: monitor query resource data mi... 1 modifier | Filters: (1 applied) | Filter | Discover

Save Query

Export Results

Quick Downloads

Recent Items

COLLAPSE MENU

Views: | Sort: Relevance | Relevance Filter: None | 0 Selected Documents | ACTIONS

1 - 50 2,329,393 results

1. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085820 | US APPLICATIONS | 24-MAR-2016

2. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085824 | US APPLICATIONS | 24-MAR-2016

3. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085826 | US APPLICATIONS | 24-MAR-2016

4. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085804 | US APPLICATIONS | 24-MAR-2016

5. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085818 | US APPLICATIONS | 24-MAR-2016

6. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085805 | US APPLICATIONS | 24-MAR-2016

7. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085825 | US APPLICATIONS | 24-MAR-2016

Real-time and adaptive data mining

101,270 Results VIEW

Sample TOP 1000 RESULTS

Relevance FULL VIEW

0 Results

17 Results

3483 Results

0 Results

0 Results

Publication Date FULL VIEW

1997 2016

Assignment by Relevance FULL VIEW

RULE 14 (18)
WILLOW ACQUISITION CO... (5)
INTL BUSINESS MACHINES ... (94)
JUSTSYSTEM EVANS RSCH... (1)
EBAY INC (32)
ALUMNI DATA INC (6)
[illegible] (2)

View More Visualizations

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8. A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085806 | US APPLICATIONS | 24-MAR-2016

9. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085822 | US APPLICATIONS | 24-MAR-2016

10. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085803 | US APPLICATIONS | 24-MAR-2016

11. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085827 | US APPLICATIONS | 24-MAR-2016

12. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085819 | US APPLICATIONS | 24-MAR-2016

13. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085821 | US APPLICATIONS | 24-MAR-2016

14. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US9229977 | US PATENTS | 05-JAN-2016

15. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20140040301 | US APPLICATIONS | 06-FEB-2014

16. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or

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more data sources, monitoring a specific data source selected from the one or more data ...

ASSIGNMENTS: RULE 14
WO2014216184A2 | WIPO APPLICATIONS | 31-DEC-2014

17. **Real-time and adaptive data mining**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
EP3014414A2 | EUROPEAN APPLICATIONS | 04-MAY-2016

18. **System and method for collecting and processing data**

A system and method for collecting and processing data over a communications network. A data mining marshaller module associates each plugin to a particular data source and manages the plugin to periodically retrieve unstructured data from the data source based on a plurality of data items to be...

ASSIGNMENTS: WILLOW ACQUISITION CORP
US20080071796 | US APPLICATIONS | 20-MAR-2008

19. **System and method for collecting and processing data**

A system and method for collecting and processing data over a communications network. A data mining marshaller module associates each plugin to a particular data source and manages the plugin to periodically retrieve unstructured data from the data source based on a plurality of data items to be...

ASSIGNMENTS: WILLOW ACQUISITION CORP [+3]
US8682841 | US PATENTS | 25-MAR-2014

20. **System and method for collecting and processing data**

A system and method for collecting and processing data over a communications network. A data mining marshaller module associates each plugin to a particular data source and manages the plugin to periodically retrieve unstructured data from the data source based on a plurality of data items to be...

ASSIGNMENTS: WILLOW ACQUISITION CORP
US8271429 | US PATENTS | 18-SEP-2012

21. **System and method for collecting and processing data**

A system and method for collecting and processing data over a communications network. A data mining marshaller module associates each plugin to a particular data source and manages the plugin to periodically retrieve unstructured data from the data source based on a plurality of data items to be...

ASSIGNMENTS: WILLOW ACQUISITION CORP
US20120330973 | US APPLICATIONS | 27-DEC-2012

22. **System and method for collecting and processing data**

A system and method for collecting and processing data over a communications network. A data mining marshaller module associates each plugin to a particular data source and manages the plugin to periodically retrieve unstructured data from the data source based on a plurality of data items to be...

ASSIGNMENTS: WILLOW ACQUISITION CORP
US20140207733 | US APPLICATIONS | 24-JUL-2014

23. **Public relations and reputation mining via semantic analytics**

A method, information processing system, and computer readable storage medium manage public relations queries using semantic analysis. A public relations query expressed in natural language is received from a user. A set of relevant topics and subjects associated with the query are identified. A set...

ASSIGNMENTS: INTL BUSINESS MACHINES CORP
US20120072429 | US APPLICATIONS | 22-MAR-2012

24. **Public relations and reputation mining via semantic analytics**

A method, information processing system, and computer readable storage medium manage public relations queries using semantic analysis. A public relations query expressed in natural language is received from a user. A set of relevant topics and subjects associated with the query are identified. A set...

ASSIGNMENTS: INTL BUSINESS MACHINES CORP

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US8417715 | US PATENTS | 09-APR-2013

25. **Method and apparatus for information mining and filtering**

A method and system for computer-assisted analysis of information from a data source employs operators including search terms and filters. A visual representation of a network of operators is generated, the operators being user selectable and linked to form the network, which is configured to...

ASSIGNMENTS: JUSTSYSTEM EVANS RSCH INC [+1]
US7464096 | US PATENTS | 09-DEC-2008

26. **System and method for topic extraction and opinion mining**

Technique for topic extraction and opinion mining are described. For example, a document that is pertinent to a topic is selected based on searching, using a key phrase, a plurality of documents. A subtopic referenced in the document is identified. A feature of the subtopic is identified based on...

ASSIGNMENTS: EBAY INC
US20140012863 | US APPLICATIONS | 09-JAN-2014

27. **Method and system for business intelligence analytics on unstructured data**

Various embodiments of the present invention disclose a method for Business Intelligence (BI) metrics on unstructured data. Unstructured data is collected from numerous data sources that include unstructured data as ingested data. The ingested data is indexed and represents hyperlink and extracted...

ASSIGNMENTS: ALUMNI DATA INC
US20100114899 | US APPLICATIONS | 06-MAY-2010

28. **System and method for topic extraction and opinion mining**

Methods, apparatus, and systems to determine a niche market of items or services, the first phase of which identifies a gap between demand and supply for a set of items. Session logs may be evaluated to compare transactions involving a specific item to those of a larger group of items. The resultant...

ASSIGNMENTS: EBAY INC
US20110078167 | US APPLICATIONS | 31-MAR-2011

29. **In response to the query, to determine the advertisement that is relevant technology**

Techniques for determining relevant advertisements in response to queries is disclosed. According to an exemplary embodiment of the present disclosure, the techniques may be realized as a computer implemented method for determining relevant advertisements in response to a query. The method may...

ASSIGNMENTS: [redacted]
JP5312771B2 | JAPANESE PATENTS | 09-OCT-2013

30. **System and method for topic extraction and opinion mining**

Methods, apparatus, and systems to determine a niche market of items or services, the first phase of which identifies a gap between demand and supply for a set of items. Session logs may be evaluated to compare transactions involving a specific item to those of a larger group of items. The resultant...

ASSIGNMENTS: EBAY INC
US8533208 | US PATENTS | 10-SEP-2013

31. **Discovering web-based multimedia using search toolbar data**

Toolbar search data is utilized to facilitate search engine crawlers to locate resources on a network such as, for example, multimedia resources on the Internet. In one instance, for example, users who opt into a user feedback experience have their toolbar searches relayed to a toolbar data mining...

ASSIGNMENTS: MICROSOFT TECH LICENSING LLC
US20070136263 | US APPLICATIONS | 14-JUN-2007

32. **Discovering web-based multimedia using search toolbar data**

Toolbar search data is utilized to facilitate search engine crawlers to locate resources on a network such as, for example, multimedia resources on the Internet. In one instance, for example, users who opt into a user feedback experience have their toolbar searches relayed to a toolbar data mining...

ASSIGNMENTS: MICROSOFT TECH LICENSING LLC
US7827191 | US PATENTS | 02-NOV-2010

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STIC

33. **Extracting Query Dimensions from Search Results**

Techniques are described for automatically mining query dimensions from web pages resulting from execution of a search query. Lists of items such as words, terms, or phrases are extracted from the web pages based on the recognition of free text, metadata tag, or repeated region patterns within the...

ASSIGNMENTS: MICROSOFT TECH LICENSING LLC
US20130173365 | US APPLICATIONS | 04-JUL-2013

34. **Autonomous real time publishing**

Techniques for autonomous and automatic real-time publishing of content are described. In an example embodiment, one or more topic terms are obtained. A set of information that is related to the one or more topic terms is automatically acquired. Linguistic analysis on the set of information is...

ASSIGNMENTS: LINGUASTAT INC
US20150356127 | US APPLICATIONS | 10-DEC-2015

35. **Classifying documents using implicit feedback and query patterns**

Methods and apparatus are described for classifying documents using a document representation model based on implicit user feedback obtained from search engine queries. The model may be used to achieve better results in non-supervised tasks such as clustering and labeling through the incorporation...

ASSIGNMENTS: YAHOO INC
US20100030768 | US APPLICATIONS | 04-FEB-2010

36. **Techniques for determining relevant advertisements in response to queries**

Techniques for determining relevant advertisements in response to queries is disclosed. According to an exemplary embodiment of the present disclosure, the techniques may be realized as a computer implemented method for determining relevant advertisements in response to a query. The method may...

ASSIGNMENTS: MOBILE CONTENT NETWORKS INC
US20080109285 | US APPLICATIONS | 08-MAY-2008

37. **Technique for determining relevant advertisements in response to queries**

ASSIGNMENTS: MOBILE CONTENT NETWORKS INC
JP2008165737A | JAPANESE APPLICATIONS | 17-JUL-2008

38. **Classifying documents using implicit feedback and query patterns**

Methods and apparatus are described for classifying documents using a document representation model based on implicit user feedback obtained from search engine queries. The model may be used to achieve better results in non-supervised tasks such as clustering and labeling through the incorporation...

ASSIGNMENTS: YAHOO INC
US8645369 | US PATENTS | 04-FEB-2014

39. **Autonomous real time publishing**

Techniques for autonomous and automatic real-time publishing of content are described. In an example embodiment, one or more topic terms are obtained. A set of information that is related to the one or more topic terms is automatically acquired. Linguistic analysis on the set of information is...

ASSIGNMENTS: LINGUASTAT INC
US9110977 | US PATENTS | 18-AUG-2015

40. **Method and system for business intelligence analytics on unstructured data**

Various embodiments of the present invention disclose a method for Business Intelligence (BI) metrics on unstructured data. Unstructured data is collected from numerous data sources that include unstructured data as ingested data. The ingested data is indexed and represents hyperlink and extracted...

ASSIGNMENTS: AUMNI DATA INC
US8266148 | US PATENTS | 11-SEP-2012

41. **Method and apparatus for information mining and filtering**

The present invention combines a data processing structure with a graphical user interface (GUI) to create an information analysis tool wherein multiple functions are

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combined in a network to extract information from multiple data sources. The functional network is created, and graphically...

ASSIGNMENTS: EVANS DAVID A [+3]
US20050223042 | US APPLICATIONS | 06-OCT-2005

42. **Method and apparatus for information mining and filtering**

The present invention combines a data processing structure with a graphical user interface (GUI) to create an information analysis tool wherein multiple functions are combined in a network to extract information from multiple data sources. The functional network is created, and graphically...

ASSIGNMENTS: JUSTSYSTEMS EVANS RSCH INC [+1]
US6915308 | US PATENTS | 05-JUL-2005

43. **System and Methods Thereof for Mining Web Based User Generated Content for Creation of Term Taxonomies**

A system for creation of term taxonomies by mining web based user generated content according. The system includes a network interface enabling access to one or more data sources; a mining unit for collecting textual content from the one or more sources and generating phrases, the generated phrases...

ASSIGNMENTS: TAYKEY LTD
US20110238674 | US APPLICATIONS | 29-SEP-2011

44. **Systems and methods for facilitating open source intelligence gathering**

Systems and methods (e.g., utilities) for use in providing automated, lightweight collection of online, open source data which may be content-based to reduce website source bias. In one aspect, a utility is disclosed for use in extracting content of interest from at least one website or other online...

ASSIGNMENTS: GEN ELEC CO [+1]
US20110225115 | US APPLICATIONS | 15-SEP-2011

45. **Mining for Product Classification Structures for Intenet-Based Product Searching**

A product search engine uses web-crawling software to index textual webpage content from multiple internet sources. The product data obtained from the web-crawling process is then granulized by parsing methods into key words, such as, words and/or phrases. These components are compared with existing...

ASSIGNMENTS: GOOGLE INC
US20120259882 | US APPLICATIONS | 11-OCT-2012

46. **Systems and methods for facilitating open source intelligence gathering**

Systems and methods (e.g., utilities) for use in providing automated, lightweight collection of online, open source data which may be content-based to reduce website source bias. In one aspect, a utility is disclosed for use in extracting content of interest from at least one website or other online...

ASSIGNMENTS: LOCKHEED MARTIN CORP
US8935197 | US PATENTS | 13-JAN-2015

47. **Techniques for determining relevant advertisements in response to queries**

Techniques for determining relevant advertisements in response to queries is disclosed. According to an exemplary embodiment of the present disclosure, the techniques may be realized as a computer implemented method for determining relevant advertisements in response to a query. The method may...

ASSIGNMENTS: MOBILE CONTENT NETWORKS INC
WO2008057268A2 | WIPO APPLICATIONS | 15-MAY-2008

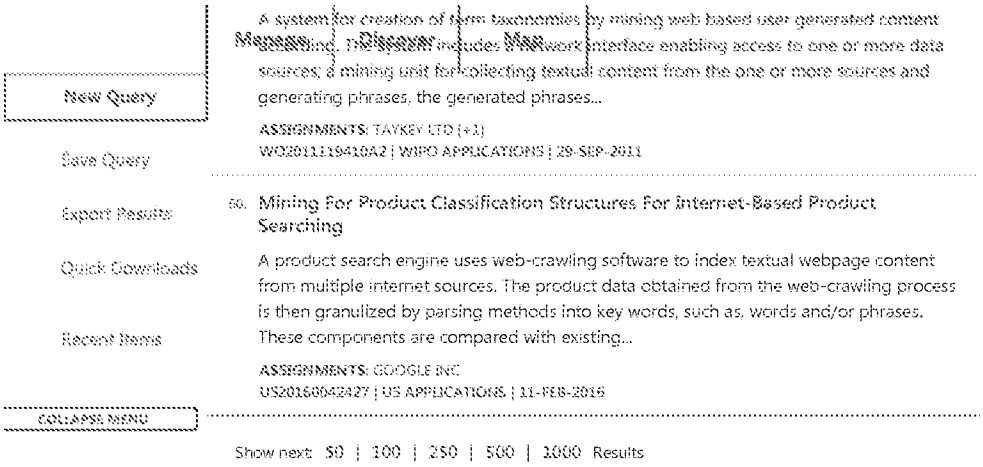
48. **Generalized data mining and analytics apparatuses, methods and systems**

The GENERALIZED DATA MINING AND ANALYTICS APPARATUSES, METHODS AND SYSTEMS ("GDMA"), in various embodiments, may identify statistical relationships among query terms by analyzing a corpus of electronic documents. Inputs may be automatically generated automatically and/or user provided. In one...

ASSIGNMENTS: QUANTIFIND INC
US9183203 | US PATENTS | 10-NOV-2015

49. **A system and methods thereof for mining web based user generated content for creation of term taxonomies**

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Copyright © 2000-2016

Manage | Discover | Map

New Query

Save Query

Export Results

Query Downloads

Recent Items

COLLAPSE MENU

Main Concept Text
modified query resource data on... 1 modifier

Filters
(1 applied)

Views | Sort: Relevance | Relevance Filter: None

1 - 50 2,929,963 results

1. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085820 | US APPLICATIONS | 24-MAR-2016

2. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085824 | US APPLICATIONS | 24-MAR-2016

3. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085826 | US APPLICATIONS | 24-MAR-2016

4. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085804 | US APPLICATIONS | 24-MAR-2016

5. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085818 | US APPLICATIONS | 24-MAR-2016

6. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085805 | US APPLICATIONS | 24-MAR-2016

7. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085825 | US APPLICATIONS | 24-MAR-2016

8. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085808 | US APPLICATIONS | 24-MAR-2016

9. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085822 | US APPLICATIONS | 24-MAR-2016

10. Real-time and adaptive data mining

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A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS:
US20160085803 | US APPLICATIONS | 24-MAR-2016

Main Concept Text | 1 modifier | Filters (1 applied)

11. Real-time and adaptive data mining

Views | Sort: Relevance | Relevance Filter: None

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085827 | US APPLICATIONS | 24-MAR-2016

12. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085813 | US APPLICATIONS | 24-MAR-2016

13. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20160085821 | US APPLICATIONS | 24-MAR-2016

14. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US9229977 | US PATENTS | 05-JAN-2016

15. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
US20140040301 | US APPLICATIONS | 06-FEB-2014

16. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
WO2014210184A2 | WIPO APPLICATIONS | 31-DEC-2014

17. Real-time and adaptive data mining

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is...

ASSIGNMENTS: RULE 14
EP3014414A2 | EUROPEAN APPLICATIONS | 04-MAY-2016

18. System and method for collecting and processing data

A system and method for collecting and processing data over a communications network. A data mining marshaller module associates each plugin to a particular data source and manages the plugin to periodically retrieve unstructured data from the data source based on a plurality of data items to be...

ASSIGNMENTS: WILLOW ACQUISITION CORP
US20080071798 | US APPLICATIONS | 20-MAR-2008

19. System and method for collecting and processing data

A system and method for collecting and processing data over a communications network. A data mining marshaller module associates each plugin to a particular data source and manages the plugin to periodically retrieve unstructured data from the data source based on a plurality of data items to be...

ASSIGNMENTS: WILLOW ACQUISITION CORP [+1]
US8682841 | US PATENTS | 25-MAR-2014

20. System and method for collecting and processing data

A system and method for collecting and processing data over a communications network. A data mining marshaller module associates each plugin to a particular data source and manages the plugin to periodically retrieve unstructured data from the data source based on a plurality of data items to be...

ASSIGNMENTS: WILLOW ACQUISITION CORP
US8271429 | US PATENTS | 18-SEP-2012

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Manage Discover Map
New Query
Save Query
Export Results
Query Downloads
Recent Items
COLLAPSE MENU

21. System and method for collecting and processing data

A system and method for collecting and processing data over a communications network. A data mining marshaller module associates each plugin to a particular data source and manages the plugin to periodically retrieve unstructured data from the data source based on a plurality of data items to be...

ASSIGNMENTS: WILLOW ACQUISITION CORP
US20130304773 | US APPLICATIONS | 14-NOV-2013

Main Concept Text 1 member Filters (1 applied)
Views Sort: Relevance Relevance Filter: None

22. System and method for collecting and processing data

A system and method for collecting and processing data over a communications network. A data mining marshaller module associates each plugin to a particular data source and manages the plugin to periodically retrieve unstructured data from the data source based on a plurality of data items to be...

ASSIGNMENTS: WILLOW ACQUISITION CORP
US20140207733 | US APPLICATIONS | 24-JUL-2014

23. Public relations and reputation mining via semantic analytics

A method, information processing system, and computer readable storage medium manage public relations queries using semantic analysis. A public relations query expressed in natural language is received from a user. A set of relevant topics and subjects associated with the query are identified. A set...

ASSIGNMENTS: INTL BUSINESS MACHINES CORP
US20120072429 | US APPLICATIONS | 22-MAR-2012

24. Public relations and reputation mining via semantic analytics

A method, information processing system, and computer readable storage medium manage public relations queries using semantic analysis. A public relations query expressed in natural language is received from a user. A set of relevant topics and subjects associated with the query are identified. A set...

ASSIGNMENTS: INTL BUSINESS MACHINES CORP
US8417713 | US PATENTS | 09-APR-2013

25. Method and apparatus for information mining and filtering

A method and system for computer-assisted analysis of information from a data source employs operators including search terms and filters. A visual representation of a network of operators is generated, the operators being user selectable and linked to form the network, which is configured to...

ASSIGNMENTS: JUSTSYSTEM EVANS RESH INC [+1]
US7464096 | US PATENTS | 09-DEC-2008

26. System and method for topic extraction and opinion mining

Technique for topic extraction and opinion mining are described. For example, a document that is pertinent to a topic is selected based on searching, using a key phrase, a plurality of documents. A subtopic referenced in the document is identified. A feature of the subtopic is identified based on...

ASSIGNMENTS: EBAY INC
US20140012863 | US APPLICATIONS | 09-JAN-2014

27. Method and system for business intelligence analytics on unstructured data

Various embodiments of the present invention disclose a method for Business Intelligence (BI) metrics on unstructured data. Unstructured data is collected from numerous data sources that include unstructured data as ingested data. The ingested data is indexed and represents hyperlink and extracted...

ASSIGNMENTS: AUMNI DATA INC
US20100114898 | US APPLICATIONS | 06-MAY-2010

28. System and method for topic extraction and opinion mining

Methods, apparatus, and systems to determine a niche market of items or services, the first phase of which identifies a gap between demand and supply for a set of items. Session logs may be evaluated to compare transactions involving a specific item to those of a larger group of items. The resultant...

ASSIGNMENTS: EBAY INC
US20110078167 | US APPLICATIONS | 31-MAR-2011

29. In response to the query, to determine the advertisement that is relevant technology

Techniques for determining relevant advertisements in response to queries is disclosed. According to an exemplary embodiment of the present disclosure, the techniques may be realized as a computer implemented method for determining relevant advertisements in response to a query. The method may...

ASSIGNMENTS: 株式会社エム・ウント・エス
JP5317718 | JAPANESE PATENTS | 09-OCT-2013

30. System and method for topic extraction and opinion mining

Methods, apparatus, and systems to determine a niche market of items or services, the first phase of which identifies a gap between demand and supply for a set of items. Session logs may be evaluated to compare transactions involving a specific item to those of a larger group of items. The resultant...

ASSIGNMENTS: EBAY INC
US8533208 | US PATENTS | 10-SEP-2013

31. Discovering web-based multimedia using search toolbar data

Toolbar search data is utilized to facilitate search engine crawlers to locate resources on a network such as, for example, multimedia resources on the Internet. In one instance, for example, users who opt into a user feedback experience have their toolbar searches relayed to a toolbar data mining...

ASSIGNMENTS: MICROSOFT TECH LICENSING LLC

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US20070130 | US APPLICATIONS | 14-JUN-2007

32. Discovering web-based multimedia using search toolbar data

Toolbar search data is utilized to facilitate search engine crawlers to locate resources on a network such as, for example, multimedia resources on the Internet. In one instance, for example, users who opt into a user feedback experience have their toolbar searches relayed to a toolbar data mining...

ASSIGNMENTS: MICROSOFT TECH LICENSING LLC
US7827176 | US PATENTS | 02-NOV-2010

33. Extracting Query Dimensions from Search Results

Techniques are described for automatically mining query dimensions from web pages resulting from execution of a search query. Lists of items such as words, terms, or phrases are extracted from the web pages based on the recognition of free text, metadata tag, or repeated region patterns within the...

ASSIGNMENTS: MICROSOFT TECH LICENSING LLC
US20130173885 | US APPLICATIONS | 04-JUL-2013

34. Autonomous real time publishing

Techniques for autonomous and automatic real-time publishing of content are described. In an example embodiment, one or more topic terms are obtained. A set of information that is related to the one or more topic terms is automatically acquired. Linguistic analysis on the set of information is...

ASSIGNMENTS: LINGUASTAT INC
US20150356127 | US APPLICATIONS | 10-DEC-2015

35. Classifying documents using implicit feedback and query patterns

Methods and apparatus are described for classifying documents using a document representation model based on implicit user feedback obtained from search engine queries. The model may be used to achieve better results in non-supervised tasks such as clustering and labeling through the incorporation...

ASSIGNMENTS: YAHOO INC
US20100030768 | US APPLICATIONS | 04-FEB-2010

36. Techniques for determining relevant advertisements in response to queries

Techniques for determining relevant advertisements in response to queries is disclosed. According to an exemplary embodiment of the present disclosure, the techniques may be realized as a computer implemented method for determining relevant advertisements in response to a query. The method may...

ASSIGNMENTS: MOBILE CONTENT NETWORKS INC
US20080109285 | US APPLICATIONS | 08-MAY-2008

37. Technique for determining relevant advertisements in response to queries

ASSIGNMENTS: MOBILE CONTENT NETWORKS INC
JP2008165737A | JAPANESE APPLICATIONS | 17-JUL-2008

38. Classifying documents using implicit feedback and query patterns

Methods and apparatus are described for classifying documents using a document representation model based on implicit user feedback obtained from search engine queries. The model may be used to achieve better results in non-supervised tasks such as clustering and labeling through the incorporation...

ASSIGNMENTS: YAHOO INC
US8645369 | US PATENTS | 04-FEB-2014

39. Autonomous real time publishing

Techniques for autonomous and automatic real-time publishing of content are described. In an example embodiment, one or more topic terms are obtained. A set of information that is related to the one or more topic terms is automatically acquired. Linguistic analysis on the set of information is...

ASSIGNMENTS: LINGUASTAT INC
US9110977 | US PATENTS | 18-AUG-2015

40. Method and system for business intelligence analytics on unstructured data

Various embodiments of the present invention disclose a method for Business Intelligence (BI) metrics on unstructured data. Unstructured data is collected from numerous data sources that include unstructured data as ingested data. The ingested data is indexed and represents hyperlink and extracted...

ASSIGNMENTS: AUMNI DATA INC
US8286148 | US PATENTS | 11-SEP-2012

41. Method and apparatus for information mining and filtering

The present invention combines a data processing structure with a graphical user interface (GUI) to create an information analysis tool wherein multiple functions are combined in a network to extract information from multiple data sources. The functional network is created, and graphically...

ASSIGNMENTS: EVANS DAVID A [+3]
US20050223042 | US APPLICATIONS | 06-OCT-2005

42. Method and apparatus for information mining and filtering

The present invention combines a data processing structure with a graphical user interface (GUI) to create an information analysis tool wherein multiple functions are combined in a network to extract information from multiple data sources. The functional network is created, and graphically...

ASSIGNMENTS: JUSTSYSTEMS EVANS RSCH INC [+1]
US6915308 | US PATENTS | 05-JUL-2005

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Manage Alerts Main Concept Text Map Filters

New Query

Save Query

Export Results

Query Downloads

Recent Items

COLLAPSE MENU

45. System and Methods Thereof for Mining Web Based User Generated Content for Creation

A system for creation of term taxonomies by mining web based user generated content according. The system includes a network interface enabling access to one or more data sources; a mining unit for collecting textual content from the one or more sources and generating phrases, the generated phrases...

ASSIGNMENTS: TAYKEY LTD

US20110258574 | US APPLICATIONS | 20-OCT-2011

Views Sort: Relevance Relevance Filter: None

46. Systems and methods for facilitating open source intelligence gathering

Systems and methods (e.g., utilities) for use in providing automated, lightweight collection of online, open source data which may be content-based to reduce website source bias. In one aspect, a utility is disclosed for use in extracting content of interest from at least one website or other online...

ASSIGNMENTS: GEN ELEC CO [+ 1]

US20130205115 | US APPLICATIONS | 15-SEP-2013

48. Mining for Product Classification Structures for Internet-Based Product Searching

A product search engine uses web-crawling software to index textual webpage content from multiple internet sources. The product data obtained from the web-crawling process is then granulized by parsing methods into key words, such as, words and/or phrases. These components are compared with existing...

ASSIGNMENTS: GOOGLE INC

US20120259882 | US APPLICATIONS | 11-OCT-2012

49. Systems and methods for facilitating open source intelligence gathering

Systems and methods (e.g., utilities) for use in providing automated, lightweight collection of online, open source data which may be content-based to reduce website source bias. In one aspect, a utility is disclosed for use in extracting content of interest from at least one website or other online...

ASSIGNMENTS: LOCKHEED MARTIN CORP

US8935197 | US PATENTS | 13-JAN-2015

47. Techniques for determining relevant advertisements in response to queries

Techniques for determining relevant advertisements in response to queries is disclosed. According to an exemplary embodiment of the present disclosure, the techniques may be realized as a computer implemented method for determining relevant advertisements in response to a query. The method may...

ASSIGNMENTS: MOBILE CONTENT NETWORKS INC

WO2008057268A2 | WIPO APPLICATIONS | 15-MAY-2008

46. Generalized data mining and analytics apparatuses, methods and systems

The GENERALIZED DATA MINING AND ANALYTICS APPARATUSES, METHODS AND SYSTEMS ("GDMA"), in various embodiments, may identify statistical relationships among query terms by analyzing a corpus of electronic documents. Inputs may be automatically generated automatically and/or user provided. In one...

ASSIGNMENTS: QUANTIFIND INC

US9183203 | US PATENTS | 10-NOV-2015

49. A system and methods thereof for mining web based user generated content for creation of term taxonomies

A system for creation of term taxonomies by mining web based user generated content according. The system includes a network interface enabling access to one or more data sources; a mining unit for collecting textual content from the one or more sources and generating phrases, the generated phrases...

ASSIGNMENTS: TAYKEY LTD [+ 1]

WO2011119410A2 | WIPO APPLICATIONS | 29-SEP-2011

50. Mining For Product Classification Structures For Internet-Based Product Searching

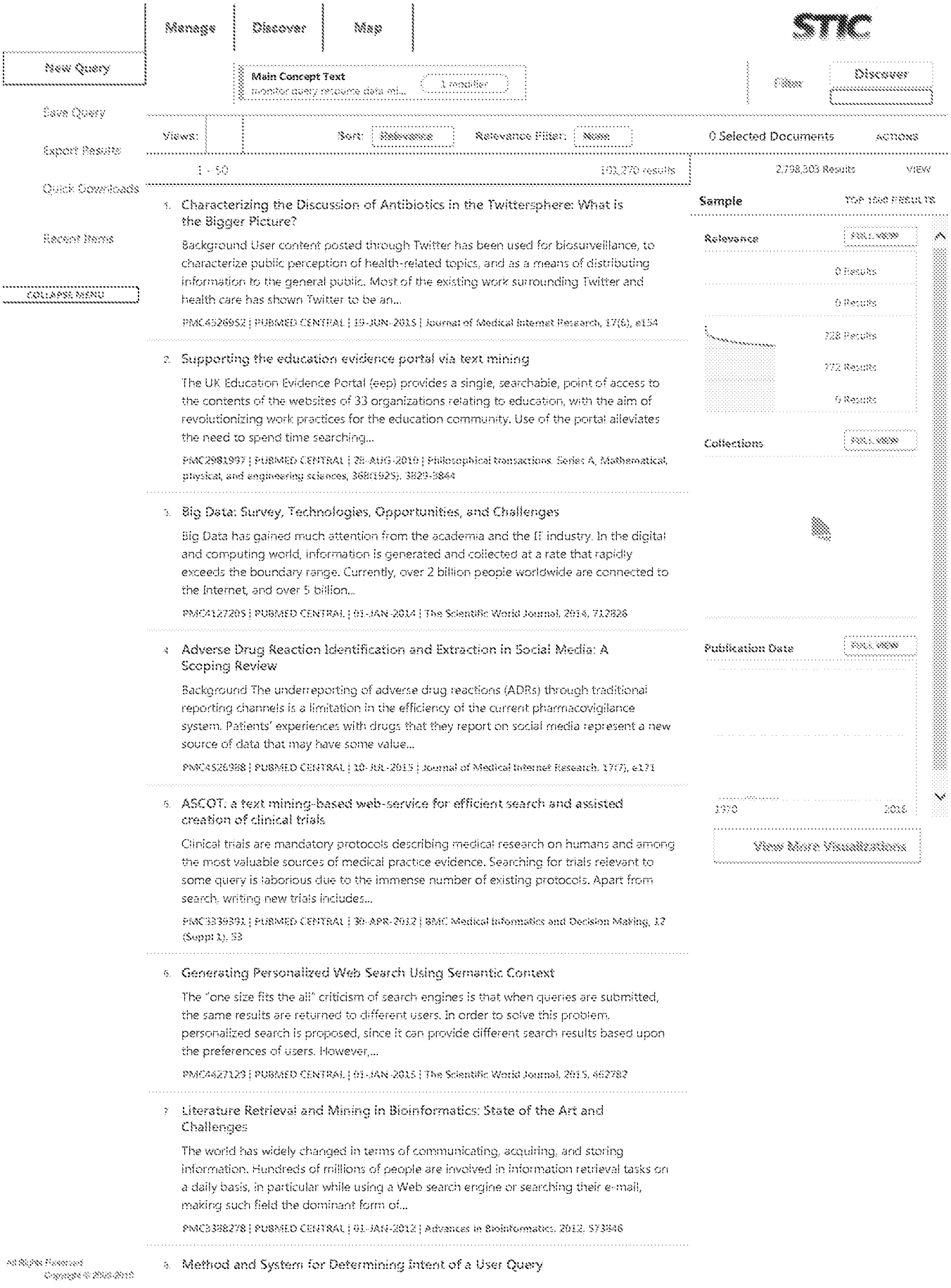
A product search engine uses web-crawling software to index textual webpage content from multiple internet sources. The product data obtained from the web-crawling process is then granulized by parsing methods into key words, such as, words and/or phrases. These components are compared with existing...

ASSIGNMENTS: GOOGLE INC

US20160042427 | US APPLICATIONS | 11-FEB-2016

Show next: 50 | 100 | 250 | 500 | 1000 Results

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Manage
Discover
Map
STIC
New Query
Main Concept Text
monitor query resource data mi...
1 modifier
Filter
Discover
Save Query
Export Results
Quick Downloads
Recent Items
COLLAPSE MENU
Views:
Sort:
Relevance
Relevance Filter:
None
0 Selected Documents
ACTIONS
1 - 50
102,270 results
2,798,303 Results
VIEW
Sample
TOP 1000 RESULTS
Relevance
FULL VIEW
0 Results
0 Results
728 Results
772 Results
0 Results
Collections
FULL VIEW
Publication Date
FULL VIEW
1970
2016
View More Visualizations
1. Characterizing the Discussion of Antibiotics in the Twittersphere: What is the Bigger Picture?
Background User content posted through Twitter has been used for biosurveillance, to characterize public perception of health-related topics, and as a means of distributing information to the general public. Most of the existing work surrounding Twitter and health care has shown Twitter to be an...
PMC4526952 | PUBMED CENTRAL | 19-JUN-2015 | Journal of Medical Internet Research, 17(6), e154
2. Supporting the education evidence portal via text mining
The UK Education Evidence Portal (eep) provides a single, searchable, point of access to the contents of the websites of 33 organizations relating to education, with the aim of revolutionizing work practices for the education community. Use of the portal alleviates the need to spend time searching...
PMC2981997 | PUBMED CENTRAL | 28-AUG-2010 | Philosophical transactions. Series A, Mathematical, physical, and engineering sciences, 368(1925), 3829-3844
3. Big Data: Survey, Technologies, Opportunities, and Challenges
Big Data has gained much attention from the academia and the IT industry. In the digital and computing world, information is generated and collected at a rate that rapidly exceeds the boundary range. Currently, over 2 billion people worldwide are connected to the Internet, and over 5 billion...
PMC4127205 | PUBMED CENTRAL | 01-JAN-2014 | The Scientific World Journal, 2014, 712826
4. Adverse Drug Reaction Identification and Extraction in Social Media: A Scoping Review
Background The underreporting of adverse drug reactions (ADRs) through traditional reporting channels is a limitation in the efficiency of the current pharmacovigilance system. Patients' experiences with drugs that they report on social media represent a new source of data that may have some value...
PMC4526988 | PUBMED CENTRAL | 10-JUL-2015 | Journal of Medical Internet Research, 17(7), e171
5. ASCOT: a text mining-based web-service for efficient search and assisted creation of clinical trials
Clinical trials are mandatory protocols describing medical research on humans and among the most valuable sources of medical practice evidence. Searching for trials relevant to some query is laborious due to the immense number of existing protocols. Apart from search, writing new trials includes...
PMC3339391 | PUBMED CENTRAL | 30-APR-2012 | BMC Medical Informatics and Decision Making, 12 (Suppl 1), S3
6. Generating Personalized Web Search Using Semantic Context
The "one size fits the all" criticism of search engines is that when queries are submitted, the same results are returned to different users. In order to solve this problem, personalized search is proposed, since it can provide different search results based upon the preferences of users. However,...
PMC4427129 | PUBMED CENTRAL | 01-JAN-2015 | The Scientific World Journal, 2015, 462782
7. Literature Retrieval and Mining in Bioinformatics: State of the Art and Challenges
The world has widely changed in terms of communicating, acquiring, and storing information. Hundreds of millions of people are involved in information retrieval tasks on a daily basis, in particular while using a Web search engine or searching their e-mail, making such field the dominant form of...
PMC3388278 | PUBMED CENTRAL | 01-JAN-2012 | Advances in Bioinformatics, 2012, 573846
8. Method and System for Determining Intent of a User Query
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A method and system for determining intent of a user query is disclosed. The method and system includes modeling intent distribution across a population of users by mining a search log and a toolbar log.

IPCOM000204187D | THE IP.COM JOURNAL | 17-FEB-2011 | The IP.com Prior Art Database

9. **Analyzing Information Seeking and Drug-Safety Alert Response by Health Care Professionals as New Methods for Surveillance**

Background Patterns in general consumer online search logs have been used to monitor health conditions and to predict health-related activities, but the multiple contexts within which consumers perform online searches make significant associations difficult to interpret. Physician...

PMC4642796 | PUBMED CENTRAL | 20-AUG-2015 | Journal of Medical Internet Research, 17(8), e204

10. **Effective Filtering of Query Results on Updated User Behavioral Profiles in Web Mining**

Web with tremendous volume of information retrieves result for user related queries. With the rapid growth of web page recommendation, results retrieved based on data mining techniques did not offer higher performance filtering rate because relationships between user profile and queries were not...

PMC4478364 | PUBMED CENTRAL | 01-JAN-2015 | The Scientific World Journal, 2015, 829126

11. **PPLook: an automated data mining tool for protein-protein interaction**

Background Extracting and visualizing of protein-protein interaction (PPI) from text literatures are a meaningful topic in protein science. It assists the identification of interactions among proteins. There is a lack of tools to extract PPI, visualize and classify the results. Results We developed...

PMC2986489 | PUBMED CENTRAL | 16-JUN-2010 | BMC Bioinformatics, 11, 326

12. **Air Pollution Monitoring and Mining Based on Sensor Grid in London**

In this paper, we present a distributed infrastructure based on wireless sensors network and Grid computing technology for air pollution monitoring and mining, which aims to develop low-cost and ubiquitous sensor networks to collect real-time, large scale and comprehensive environmental data from...

PMC3714656 | PUBMED CENTRAL | 01-JUN-2008 | Sensors (Basel, Switzerland), 8(6), 3601-3623

13. **IBM Watson Content Analytics: Discovering Actionable Insight from Your Content**

IBM® Watson™ Content Analytics (Content Analytics) Version 3.0 (formerly known as IBM Content Analytics with Enterprise Search (ICAwES)) helps you to unlock the value of unstructured content to gain new actionable business insight and provides the enterprise search capability all in one product....

SG247877G2 | IBM REDBOOKS | 07-JUL-2014

14. **BioEve Search: A Novel Framework to Facilitate Interactive Literature Search**

Background. Recent advances in computational and biological methods in last two decades have remarkably changed the scale of biomedical research and with it began the unprecedented growth in both the production of biomedical data and amount of published literature discussing it. An automated...

PMC3368157 | PUBMED CENTRAL | 01-JAN-2012 | Advances in Bioinformatics, 2012, 509126

15. **Linking genes to literature: text mining, information extraction, and retrieval applications for biology**

Efficient access to information contained in online scientific literature collections is essential for life science research, playing a crucial role from the initial stage of experiment planning to the final interpretation and communication of the results. The biological literature also constitutes...

PMC2559992 | PUBMED CENTRAL | 01-JAN-2008 | Genome Biology, 9(Suppl 2), S8

16. **The GAAIN Entity Mapper: An Active-Learning System for Medical Data Mapping**

This work is focused on mapping biomedical datasets to a common representation, as an integral part of data harmonization for integrated biomedical data access and sharing. We present GEM, an intelligent software assistant for automated data mapping across different datasets or from a dataset to a...

PMC4710756 | PUBMED CENTRAL | 13-JAN-2016 | Frontiers in Neuroinformatics, 9, 30

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17. Mining Personal Data Using Smartphones and Wearable Devices: A Survey

The staggering growth in smartphone and wearable device use has led to a massive scale generation of personal (user-specific) data. To explore, analyze, and extract useful information and knowledge from the deluge of personal data, one has to leverage these devices as the data-mining platforms in...

PMC4367420 | PUBMED CENTRAL | 13-FEB-2015 | Sensors (Basel, Switzerland), 15(2), 4430-4469

18. Method and System for Identifying Transactional Queries and Target them to Appropriate Domain

A method and system for identifying transactional queries and targeting them to an appropriate domain is disclosed. The method analyses and identifies template of queries that are entered in a web search engine.

IPCOM000222572D | THE IP.COM JOURNAL | 18-OCT-2012 | The IP.com Prior Art Database

19. Dynamic Warehousing: Data Mining Made Easy

Data mining has evolved from the ethereal domain of the highly-skilled mathematician to the expert data miner's workbench tool and ultimately to widely accessible business applications. For decades, industry and academia have been engaged in far-reaching research and development of data mining. At...

SG247741890 | IBM REDBOOKS | 06-SEP-2007

20. Content-rich biological network constructed by mining PubMed abstracts

Background The integration of the rapidly expanding corpus of information about the genome, transcriptome, and proteome, engendered by powerful technological advances, such as microarrays, and the availability of genomic sequence from multiple species, challenges the grasp and comprehension of the...

PMC528731 | PUBMED CENTRAL | 08-OCT-2004 | BMC Bioinformatics, 5, 147

21. Design of Automatic Extraction Algorithm of Knowledge Points for MOOCs

In recent years, Massive Open Online Courses (MOOCs) are very popular among college students and have a powerful impact on academic institutions. In the MOOCs environment, knowledge discovery and knowledge sharing are very important, which currently are often achieved by ontology techniques. In...

PMC4584052 | PUBMED CENTRAL | 01-JAN-2015 | Computational Intelligence and Neuroscience, 2015, 123028

22. BLASTGrabber: a bioinformatic tool for visualization, analysis and sequence selection of massive BLAST data

Background Advances in sequencing efficiency have vastly increased the sizes of biological sequence databases, including many thousands of genome-sequenced species. The BLAST algorithm remains the main search engine for retrieving sequence information, and must consequently handle data on an...

PMC4062517 | PUBMED CENTRAL | 05-MAY-2014 | BMC Bioinformatics, 15, 128

23. Integrated Bio-Search: challenges and trends for the integration, search and comprehensive processing of biological information

Many efforts exist to design and implement approaches and tools for data capture, integration and analysis in the life sciences. Challenges are not only the heterogeneity, size and distribution of information sources, but also the danger of producing too many solutions for the same problem....

PMC4015876 | PUBMED CENTRAL | 10-JAN-2014 | BMC Bioinformatics, 15(Suppl 1), S2

24. System and method to share information in social network based on mining chat message and browsing history

Disclosed is a system and method for fetching and sharing information effectively. It generates a list of interested persons and links via mining chat history and browser history. It makes users have a high chance to get the topics which they actually need rather than broadcasted information that...

IPCOM000212660D | THE IP.COM JOURNAL | 22-NOV-2011 | The IP.com Prior Art Database

25. A system and method to link web based customer feedback data mining result with software artifacts in IDE

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A vast amount of customer feedback exists on newsgroup, product forum or blog on web. Manually subscribe to these sources and manually follow up the postings to extract useful customer insight. This is very time consuming and there is no explicit linkage between the extracted...

IPCOM000188276D | THE IP.COM JOURNAL | 29-SEP-2009 | The IP.com Prior Art Database

26. **Facilitating the development of controlled vocabularies for metabolomics technologies with text mining**

Background Many bioinformatics applications rely on controlled vocabularies or ontologies to consistently interpret and seamlessly integrate information scattered across public resources. Experimental data sets from metabolomics studies need to be integrated with one another, but also with data...

PMC2367623 | PUBMED CENTRAL | 29-APR-2008 | BMC Bioinformatics, 9(Suppl 5), S5

27. **Development and tuning of an original search engine for patent libraries in medicinal chemistry**

Background The large increase in the size of patent collections has led to the need of efficient search strategies. But the development of advanced text-mining applications dedicated to patents of the biomedical field remains rare, in particular to address the needs of the pharmaceutical & biotech...

PMC4015144 | PUBMED CENTRAL | 19-JAN-2014 | BMC Bioinformatics, 15(Suppl 1), S15

28. **BIRI: a new approach for automatically discovering and indexing available public bioinformatics resources from the literature**

Background The rapid evolution of Internet technologies and the collaborative approaches that dominate the field have stimulated the development of numerous bioinformatics resources. To address this new framework, several initiatives have tried to organize these services and resources. In this ..

PMC2765974 | PUBMED CENTRAL | 07-OCT-2009 | BMC Bioinformatics, 10, 320

29. **Literature classification for semi-automated updating of biological knowledgebases**

Background As the output of biological assays increase in resolution and volume, the body of specialized biological data, such as functional annotations of gene and protein sequences, enables extraction of higher-level knowledge needed for practical application in bioinformatics. Whereas common...

PMC3852072 | PUBMED CENTRAL | 16-OCT-2013 | BMC Genomics, 14(Suppl 5), S14

30. **WikiSensing: An Online Collaborative Approach for Sensor Data Management**

This paper presents a new methodology for collaborative sensor data management known as WikiSensing. It is a novel approach that incorporates online collaboration with sensor data management. We introduce the work on this research by describing the motivation and challenges of designing and ..

PMC3545568 | PUBMED CENTRAL | 01-OCT-2012 | Sensors (Basel, Switzerland), 12(10), 13295-13332

31. **PESCADOR, a web-based tool to assist text-mining of biointeractions extracted from PubMed queries**

Background Biological function is greatly dependent on the interactions of proteins with other proteins and genes. Abstracts from the biomedical literature stored in the NCBI's PubMed database can be used for the derivation of interactions between genes and proteins by identifying the co-occurrences...

PMC3228919 | PUBMED CENTRAL | 09-NOV-2011 | BMC Bioinformatics, 12, 435

32. **MScanner: a classifier for retrieving Medline citations**

Background Keyword searching through PubMed and other systems is the standard means of retrieving information from Medline. However, ad-hoc retrieval systems do not meet all of the needs of databases that curate information from literature, or of text miners developing a corpus on a topic that has...

PMC2263023 | PUBMED CENTRAL | 19-FEB-2008 | BMC Bioinformatics, 9, 108

33. **A formal concept analysis and semantic query expansion cooperation to refine health outcomes of interest**

Background Electronic Health Records (EHRs) are frequently used by clinicians and researchers to search for, extract, and analyze groups of patients by defining Health

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Manage Discover Map

New Query

Save Query

Export Results

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Recent Items

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Outcomes of Interest (HOI). The definition of an HOI is generally considered a complex [illegible] for health care...

PMC4480622 | PUBMED CENTRAL | 20-MAY-2015 | BMC Medical Informatics and Decision Making, 15 (Suppl 1), S8

34. **Hybrid Ontology for Semantic Information Retrieval Model Using Keyword Matching Indexing System**

Ontology is the process of growth and elucidation of concepts of an information domain being common for a group of users. Establishing ontology into information retrieval is a normal method to develop searching effects of relevant information users require. Keywords matching process with historical...

PMC4397492 | PUBMED CENTRAL | 01-JAN-2015 | The Scientific World Journal, 2015, 414910

35. **Metaphor Interpretation Using Paraphrases Extracted from the Web**

Interpreting metaphor is a hard but important problem in natural language processing that has numerous applications. One way to address this task is by finding a paraphrase that can replace the metaphorically used word in a given context. This approach has been previously implemented only within...

PMC3779216 | PUBMED CENTRAL | 20-SEP-2013 | PLoS ONE, 8(9), e74304

36. **Enhancing navigation in biomedical databases by community voting and database-driven text classification**

Background The breadth of biological databases and their information content continues to increase exponentially. Unfortunately, our ability to query such sources is still often suboptimal. Here, we introduce and apply community voting, database-driven text classification, and visual aids as a means...

PMC2768718 | PUBMED CENTRAL | 03-OCT-2009 | BMC Bioinformatics, 10, 317

37. **A bioinformatics knowledge discovery in text application for grid computing**

Background A fundamental activity in biomedical research is Knowledge Discovery which has the ability to search through large amounts of biomedical information such as documents and data. High performance computational infrastructures, such as Grid technologies, are emerging as a possible...

PMC2697647 | PUBMED CENTRAL | 16-JUN-2009 | BMC Bioinformatics, 10(Suppl 6), S23

38. **Intelligent Topical Sentiment Analysis for the Classification of E-Learners and Their Topics of Interest**

Every day, huge numbers of instant tweets (messages) are published on Twitter as it is one of the massive social media for e-learners interactions. The options regarding various interesting topics to be studied are discussed among the learners and teachers through the capture of ideal sources in...

PMC4381865 | PUBMED CENTRAL | 01-JAN-2015 | The Scientific World Journal, 2015, 617358

39. **Influenza-Like Illness Surveillance on Twitter through Automated Learning of Naïve Language**

Twitter has the potential to be a timely and cost-effective source of data for syndromic surveillance. When speaking of an illness, Twitter users often report a combination of symptoms, rather than a suspected or final diagnosis, using naïve, everyday language. We developed a minimally trained...

PMC3853203 | PUBMED CENTRAL | 04-DEC-2013 | PLoS ONE, 8(12), e82489

40. **Context-Specific Protein Network Miner -- An Online System for Exploring Context-Specific Protein Interaction Networks from the Literature**

Background Protein interaction networks (PINs) specific within a particular context contain crucial information regarding many cellular biological processes. For example, PINs may include information on the type and directionality of interaction (e.g. phosphorylation), location of interaction (i.e....

PMC3321019 | PUBMED CENTRAL | 06-APR-2012 | PLoS ONE, 7(4), e34480

41. **BioUSeR: a semantic-based tool for retrieving Life Science web resources driven by text-rich user requirements**

Background Open metadata registries are a fundamental tool for researchers in the Life Sciences trying to locate resources. While most current registries assume that resources

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are annotated with well-structured metadata, evidence shows that most of the resource

PMC3688192 | PUBMED CENTRAL | 03-MAY-2013 | Journal of Biomedical Semantics, 4, 12

42. **Personalized online information search and visualization**

Background The rapid growth of online publications such as the Medline and other sources raises the questions how to get the relevant information efficiently. It is important, for a bench scientist, e.g., to monitor related publications constantly. It is also important, for a clinician, e.g., to...

PMC1079857 | PUBMED CENTRAL | 16-MAR-2005 | BMC Medical Informatics and Decision Making, 5, 6

43. **Computer-Assisted Update of a Consumer Health Vocabulary Through Mining of Social Network Data**

Background Consumer health vocabularies (CHVs) have been developed to aid consumer health informatics applications. This purpose is best served if the vocabulary evolves with consumers' language. Objective Our objective was to create a computer assisted update (CAU) system that works with live...

PMC3221384 | PUBMED CENTRAL | 17-MAY-2011 | Journal of Medical Internet Research, 13(2), e37

44. **The Collaborative Search by Tag-Based User Profile in Social Media**

Recently, we have witnessed the popularity and proliferation of social media applications (e.g., Delicious, Flickr, and YouTube) in the web 2.0 era. The rapid growth of user-generated data results in the problem of information overload to users. Facing such a tremendous volume of data, it is a big...

PMC4322306 | PUBMED CENTRAL | 01-JAN-2014 | The Scientific World Journal, 2014, 608326

45. **NeuroElectro: a window to the world's neuron electrophysiology data**

The behavior of neural circuits is determined largely by the electrophysiological properties of the neurons they contain. Understanding the relationships of these properties requires the ability to first identify and catalog each property. However, information about such properties is largely locked...

PMC4010726 | PUBMED CENTRAL | 29-APR-2014 | Frontiers in Neuroinformatics, 8, 40

46. **BioHackathon series in 2011 and 2012: penetration of ontology and linked data in life science domains**

The application of semantic technologies to the integration of biological data and the interoperability of bioinformatics analysis and visualization tools has been the common theme of a series of annual BioHackathons hosted in Japan for the past five years. Here we provide a review of the activities...

PMC3978116 | PUBMED CENTRAL | 05-FEB-2014 | Journal of Biomedical Semantics, 5, 5

47. **Using Smart Phone Sensors to Detect Transportation Modes**

The proliferation of mobile smart devices has led to a rapid increase of location-based services, many of which are amassing large datasets of user trajectory information. Unfortunately, current trajectory information is not yet sufficiently rich to support classification of user transportation...

PMC4279514 | PUBMED CENTRAL | 04-NOV-2014 | Sensors (Basel, Switzerland), 14(11), 20843-20865

48. **Deploying mutation impact text-mining software with the SADI Semantic Web Services framework**

Background Mutation impact extraction is an important task designed to harvest relevant annotations from scientific documents for reuse in multiple contexts. Our previous work on text mining for mutation impacts resulted in (i) the development of a GATE-based pipeline that mines texts for...

PMC3194198 | PUBMED CENTRAL | 05-JUL-2011 | BMC Bioinformatics, 12(Suppl 4), S6

49. **Resource Construction and Evaluation for Indirect Opinion Mining of Drug Reviews**

Opinion mining is a well-known problem in natural language processing that has attracted increasing attention in recent years. Existing approaches are mainly limited to the identification of direct opinions and are mostly dedicated to explicit opinions. However, in some domains such as medical, the...

PMC4427363 | PUBMED CENTRAL | 11-MAY-2015 | PLoS ONE, 10(5), e0126993

50. **PathBinder – text empirics and automatic extraction of biomolecular interactions**

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Motivation: The increasingly large amount of free, online biological text makes automatic [illegible] correspondingly attractive. Machine learning is one strategy that works by uncovering and using useful properties that are implicit in the text. However these properties are usually not...

PMC3226189 | PUBMED CENTRAL | 08-OCT-2009 | BMC Bioinformatics, 10(Suppl 11), S18

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J Han, J Pei, M Kamber - 2011 - books.google.com

... Measures: Their Categorization and Computation 144 4.2.5 Typical OLAP Operations 146 4.2.6 A Starnet **Query** Model for **Querying** Multidimensional Databases ... 2 Indexing OLAP **Data**: Bitmap Index and Join Index 160 4.4.3 Efficient Processing of OLAP **Queries** 163 4.4 ...

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Mining data streams: a review

MM Gaber, A Zaslavsky, S Krishnaswamy - ACM Sigmod Record, 2005 - dl.acm.org

... a compact cube that could be used for answering aggregate **queries** over the ... It is a ubiquitous **data mining** system that allows continuous **monitoring** and pattern ... The integration among storage, **querying**, **mining** and reasoning over streaming information would realize robust ...

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PN Tan - 2006 - Pearson Education India

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J Srivastava, R Cooley, M Deshpande... - Acm Sigkdd Explorations ..., 2000 - dl.acm.org

... 2.2, the only verifiable method of tracking cached page views is to **monitor** usage from ... The most com- mon form of pattern analysis consists of a knowledge **query** mechanism such as ... **Queries** can be answered by mapping them into the intermediate nodes of the tree structure. ...

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N Jiang, L Gruenwald - ACM Sigmod Record, 2006 - dl.acm.org

... Association rule **mining** can also be applied to **monitor** manufacturing flows [Kargupta, 2004] to predict failure or ... Timeline **Query** Stream **data** come continuously over time. ... Visualization In some **data** stream applications, especially **monitoring** applications, there is a demand for ...

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C-SPARQL: a continuous **query** language for RDF **data** streams

DF Barbieri, D Braga, S Ceri, ED VALLE... - ... Journal of Semantic ..., 2010 - World Scientific

... OpenCQ [27] and Nia- garaCQ [10] addressed continuous **queries** for **monitoring** persistent **data** sets spread ... but also whenever, due to peaks of workload, the execution **frequency** of all **queries** is reduced ... As in the previous **query**, all pairs of bindings of tollgates with the car they ...

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Adaptive intrusion detection: A **data mining** approach

W Lee, SJ Stolfo, KW Mok - Artificial Intelligence Review, 2000 - Springer

... 1990) as "any set of actions that attempt to compromise the integrity, confidentiality or availability of a **resource**", for example, illegally gaining superuser privileges, attacking and rendering a ... In this section we report upon our experience in **mining** the audit **data** and using the ...

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What's **new**: finding significant differences in network **data** streams

G Cormode, S Muthukrishnan - IEEE/ACM Transactions on Networking (..., 2005 - dl.acm.org

... Another example is to **monitor** "heavy hitters", ie, those flows that represent a significantly large ... truly high performance in order to be considered for deployment in real network **monitoring** situations. ... so it is possible to make use of the sequence of item identifiers to **query** our **data** ...

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Data preparation for **data mining**

D Pyle - 1999 - books.google.com

... statistics, stock movement, option prices, weather, socio- logical behavior, **traffic** demand, **resource** needs, and ... discovery, and deposits you on the very doorstep of building a **data**- **mined** model. ... of **data**—the group of technologies that today have come to be called **data mining**. ...

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Temporal sequence learning and **data** reduction for anomaly detection
T Lane, CE Brodley - ACM Transactions on Information and System ..., 1999 - dl.acm.org
... based anomaly detection at the user level can be viewed as a continuous **monitoring** process of **...** 1998] or EMERALD [Porras and Neu- mann 1997] allow integration of a user **monitor**, such as the **...** as the number of times a dictionary instance is most similar to a **query** instance, to **...**
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L18	16	("rule 14").as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2016/07/25 09:39
L17	2	("data mining" or "data mine" or "datamine" or "datamining") query expan$4 (resource or source or data or database) and (monitor$3 or track$3) and select (source or resource or database) (traffic or popularity or frequency) and @ad<"20120802"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2016/07/25 09:35
L16	2	query expan$4 (resource or source or data or database) and (monitor$3 or track$3) (resource or database or source) (new or add$3) data and select (source or resource or database) threshold (traffic or popularity or frequency) and @ad<"20120802"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2016/07/25 09:32
L15	31	query expan$4 (resource or source or data or database) and (monitor$3 or track$3) (resource or database or source) (new or add$3) data and select (source or resource or database) (traffic or popularity or frequency) and @ad<"20120802"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2016/07/25 09:32
L14	97	query expan$4 (resource or source or data or database) and (monitor$3 or track$3) and select (source or resource or database) (traffic or popularity or frequency) and @ad<"20120802"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2016/07/25 09:31
L13	20283	select (source or resource or database) (traffic or popularity or frequency) and @ad<"20120802"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2016/07/25 09:30
L12	2	("data mining" or "data mine" or "datamine" or "datamining") query expan$4 (resource or source or data or database) and (monitor$3 or track$3) analyz$3 query (resource or source or data or database) and connect$3 user and	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2016/07/25 09:29

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		@ad<"20120802"				
L11	5	L10 AND ((G06F17/30672 OR G06F17/30442 OR G06F17/30796).CPC. or 707/765.ccls.)	US-PGPUB; USPAT	SAME	OFF	2016/07/25 09:29
L10	8	query topic expand$3 analyze	US-PGPUB; USPAT	SAME	OFF	2016/07/25 09:29
L9	82	(chadha-sharon or cheng-xin or chadha-parvinder).in. and @pd<"20120802"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2016/07/25 09:28
L8	434	(chadha-sharon or cheng-xin or chadha-parvinder).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2016/07/25 09:28
L2	1	(14/960309).APP.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/07/25 09:08
L1	0	(14/960309).APP.	USPAT; USOCR	OR	OFF	2016/07/25 09:07
S152	1	("20160085823").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/07/24 23:26
S151	1	("20140316911").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/07/24 23:22
S150	0	("2014316911").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/07/24 23:22
S149	1	("8775406").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/07/24 23:19
S148	1	("20110047161").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/07/24 21:28
S147	12	(("8498889") or ("8301486") or ("8078489") or ("6260041") or ("20130325838") or ("20130282702") or ("20120150645") or ("20110047161") or ("20080270344") or ("20080201339") or ("20050283473") or ("20040015481")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/07/24 19:36
S146	4	(("8498889") or ("8301486") or ("8078489") or ("6260041") or ("20130325838") or ("20130282702") or ("20120150645") or ("20110047161") or ("20080270344") or ("20080201339") or	USPAT; USOCR	OR	OFF	2016/07/24 19:36

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		("20050283473") or ("20040015481")).PN.				
S145	4	(("8498889") or ("8301486") or ("8078489") or ("6260041") or ("20130325838") or ("20130282702")).PN.	USPAT; USOCR	OR	OFF	2016/07/24 19:34
S144	18	bully$3 database report	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2016/07/24 18:57
S143	1	"13928313"	USPAT	OR	OFF	2016/07/24 16:25
S142	16	"13928313"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2016/07/23 20:09
S141	3	bully$3 database report and @ad<"20151204" and query$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2016/07/23 19:54
S140	4	bully$3 database report and @ad<"20151204"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2016/07/23 19:51
S138	1	bully$3 database report	USPAT	SAME	OFF	2016/07/23 19:49
S137	1493677	bully$3 database report	USPAT	OR	OFF	2016/07/23 19:49
S136	792628	bully$3 database	USPAT	OR	OFF	2016/07/23 19:49
S135	588	bully$3	USPAT	OR	OFF	2016/07/23 19:48
S134	38	"6260041"	USPAT	OR	OFF	2016/07/23 19:43

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	1327	analyz$3 extract$3 ("data mining" or "data mine") (resource or source or data or database)	US-PGPUB; USPAT	SAME	OFF	2016/07/25 09:28
L6	2	real time data mining visual and feedback and @ad<"20120802" and quer$3 expan$6	US-PGPUB; USPAT	SAME	OFF	2016/07/25 09:28
L5	5	query topic expand$3 analyze AND (	US-	SAME	OFF	2016/07/25

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L4	3	query expand$3 analyze feedback and((G06F17/30672 OR G06F17/30442 OR G06F17/30796).CPC. or(707/765 or 707/722).ccls.)	US-PGPUB; USPAT	SAME	OFF	2016/07/25 09:28
L3	5	query topic expand$3 analyze AND ((G06F17/30672 OR G06F17/30442 OR G06F17/30796).CPC. or 707/765.ccls.)	US-PGPUB; USPAT	SAME	OFF	2016/07/25 09:28

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Cite No	Patent Number	Kind Code [1]	Issue Date (YYYY-MM-DD)	First Named Inventor
[1] /M.P./	8775406		2014-07-08	John Gross

U.S. PATENT APPLICATION PUBLICATIONS				
Cite No	Publication Number	Kind Code [1]	Publication Date (YYYY-MM-DD)	First Named Inventor
1 /M.P./	20140316911		2014-10-23	Gross

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STATEMENTS

The party making the submission is not an individual who has a duty to disclose information with respect to the above-identified application under 37 CFR 1.56.

This submission complies with the requirements of 35 U.S.C. 122(e) and 37 CFR 1.290.

☐ The fee set forth in 37 CFR 1.290(f) has been submitted herewith.

☒ The fee set forth in 37 CFR 1.290(f) is not required because this submission lists three or fewer total items and, to the knowledge of the person signing the statement after making reasonable inquiry, this submission is the first and the only submission under 35 U.S.C 122(e) filed in the above-identified application by the party making the submission or by a party in privity with the party.

☐ This resubmission is being made responsive to a notification of non-compliance issued for an earlier filed third-party submission. The corrections in this resubmission are limited to addressing the non-compliance. As such, the party making this resubmission: (1) requests that the Office apply the previously-paid fee set forth in 37 CFR 1.290(f), or (2) states that no fee is required to accompany this resubmission as the undersigned is again making the fee exemption statement set forth in 37 CFR 1.290(g).

Signature	/J Nicholas Gross/		
Name/Print	J Nicholas Gross	Registration Number (if applicable)	34175

Examiner Signature	/MICHAEL PHAM/	Date Considered	07/25/2016

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	14960309
Filing Date	2015-12-15
First Named Inventor	Sharon Gill CHADHA
Art Unit	2167
Examiner Name	Michael Pham
Attorney Docket Number	79531-000022

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/M.P/	1	8498889	B1	2013-07-30	Roy E. Marsten	
/M.P/	2	8301486	B1	2012-10-30	Roy Earl Marsten	
/M.P/	3	8078489	B1	2011-12-13	Roy E. Marsten	
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/M.P/	1	20130325838	A1	2013-12-05	Ying-Hsiang Liao	
/M.P/	2	20130282702	A1	2013-10-24	Shenhong Zhu et al.	

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/M.P/	3	20120150645	A1	2012-06-14	Srinivas A. Mandyam et al.	
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/M.P/	5	20080270344	A1	2008-10-30	Steven J. Yurick et al.	
/M.P/	6	20080201339	A1	2008-08-21	Robert J. McGrew et al.	
/M.P/	7	20050283473	A1	2005-12-22	Armand Rousso et al.	
/M.P/	8	20040015481	A1	2004-01-22	Kenneth Zinda	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14960309
	Filing Date	2015-12-15
	First Named Inventor	Sharon Gill CHADHA
	Art Unit	2167
	Examiner Name	
	Attorney Docket Number	79531-000022

/M.P/	1	INTERNATIONAL SEARCH REPORT AND WRITTEN OPINION - PCT/US2014/044134 - ISA/US - 2015-04-01 (79531-000005).

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Examiner Signature	/MICHAEL PHAM/	Date Considered	07/24/2016

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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	Application Number	14960309
	Filing Date	2015-12-15
	First Named Inventor	Sharon Gill CHADHA
	Art Unit	2167
	Examiner Name	
	Attorney Docket Number	79531-000022

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Puya Partow-Navid/	Date (YYYY-MM-DD)	2016-03-04
Name/Print	Puya Partow-Navid	Registration Number	59657

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/960,309	12/04/2015	Sharon Gill CHADHA	79531-000022	1063

98275 7590 04/06/2016

Seyfarth Shaw LLP
2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3063

EXAMINER
BEAUSOLIEL JR, ROBERT W

ART UNIT	PAPER NUMBER
2167	

NOTIFICATION DATE	DELIVERY MODE
04/06/2016	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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laxipdocket@seyfarth.com

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
14/960,309	04 December, 2015	CHADHA ET AL.	79531-000022

Seyfarth Shaw LLP
2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3063

EXAMINER	
EDDIE LEE	
ART UNIT	PAPER
2100	20160331

DATE MAILED:

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Commissioner for Patents

A third-party submission under 37 CFR 1.290 has been filed on March 25, 2016, and is being entered in the above-identified application. Please allow a few days for the submission to be visible in the Patent Application Information Retrieval (PAIR) system.

/Eddie C. Lee/
Quality Assurance Specialist
TC2100

PTO-90C (Rev.04-03)

IPR2025-00623
UIPATH EXHIBIT 1002

THIRD-PARTY SUBMISSION UNDER 37 CFR 1.290
CONCISE DESCRIPTION OF RELEVANCE

Application Number	14960309

U.S. PATENTS

Cite No	Patent Number	Concise Description of Relevance
1	8775406	'405 patent discusses polling social network sites to find updates of topics for news as discovered (e.g. an accident) the system automatically looks for updates on that topic in different knowledge domains, and refreshes results for a news aggregator, etc. '309 claim 1: generating a query based on topic: FIG. 4 verification step 480 is done based on an identified topic; 3:48-52; 17:54-58 executing on a plurality of data sources: FIG. 5, box 520 verification sources are selected; 17:11-37 (sources compiled); 17:46 - 18:38 describes verification process monitoring based on a set schedule: FIG. 5 box 530, the sources are examined periodically; 21:10-22:12 specifically mentions polling sources; extracting data that matches the query: FIG. 5 box 540, data in the verification sources matching

U.S. PATENT APPLICATION PUBLICATION

Cite No	Publication Number	Concise Description of Relevance
1	20140316911	As with '406 specification; also see claims 28-52 which describe monitoring sources to locate information germane to a topic to identify updates in places such as social networks, news sites, etc.

FOREIGN PATENT DOCUMENTS		
CiteNo	**Foreign Document Number**	**Concise Description of Relevance**

NON-PATENT PUBLICATIONS		
Cite No	**Reference**	**Concise Description of Relevance**

IPR2025-00623
UIPATH EXHIBIT 1002

PTO/SB/429(08-12)
Approved for use through 07/31/2015. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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THIRD-PARTY SUBMISSION UNDER 37 CFR 1.290	Application Number	14960309

U.S. PATENTS				
Cite No	Patent Number	Kind Code [1]	Issue Date (YYYY-MM-DD)	First Named Inventor
1	8775406		2014-07-08	John Gross

U.S. PATENT APPLICATION PUBLICATIONS				
Cite No	Publication Number	Kind Code [1]	Publication Date (YYYY-MM-DD)	First Named Inventor
1	20140316911		2014-10-23	Gross

FOREIGN PATENTS AND PUBLISHED FOREIGN PATENT APPLICATIONS						
Cite No	Foreign Document Number [3]	Country Code [2]	Kind Code [1]	Publication Date (YYYY-MM-DD)	Applicant, Patentee or First Named Inventor	T [5]
						☐

NON-PATENT PUBLICATIONS (e.g., journal article, Office action)			
Cite No	Author (if any), title of the publication, page(s) being submitted, publication date, publisher (where available), place of publication (where available).	T [5]	E [6]

THIRD-PARTY SUBMISSION UNDER 37 CFR 1.290	Application Number	14960309

		☐	☐

STATEMENTS

The party making the submission is not an individual who has a duty to disclose information with respect to the above-identified application under 37 CFR 1.56.

This submission complies with the requirements of 35 U.S.C. 122(e) and 37 CFR 1.290.

☐ The fee set forth in 37 CFR 1.290(f) has been submitted herewith.

☒ The fee set forth in 37 CFR 1.290(f) is not required because this submission lists three or fewer total items and, to the knowledge of the person signing the statement after making reasonable inquiry, this submission is the first and the only submission under 35 U.S.C 122(e) filed in the above-identified application by the party making the submission or by a party in privity with the party.

☐ This resubmission is being made responsive to a notification of non-compliance issued for an earlier filed third-party submission. The corrections in this resubmission are limited to addressing the non-compliance. As such, the party making this resubmission: (1) requests that the Office apply the previously-paid fee set forth in 37 CFR 1.290(f), or (2) states that no fee is required to accompany this resubmission as the undersigned is again making the fee exemption statement set forth in 37 CFR 1.290(g).

Signature	/J Nicholas Gross/		
Name/Print	J Nicholas Gross	Registration Number (if applicable)	34175

Examiner Signature		Date Considered	

*EXAMINER: Signature indicates all documents listed above have been considered,except for citations through which a line is drawn. Draw line through citation if not considered. Include a copy of this form with next communication to applicant. 1. If known, enter kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16. See MPEP 901.04(a). 2. Enter the country or patent office that issued the document, by two-letter code under WIPO standard ST.3. See MPEP 1851. 3. For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 4. If known, enter the kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 . See MPEP 901.04(a). 5. Check mark indicates translation attached. 6. Check mark indicates evidence of publication attached.

Electronic Acknowledgement Receipt

EFS ID:	25312685
Application Number:	14960309
International Application Number:	
Confirmation Number:	1063
Title of Invention:	
First Named Inventor/Applicant Name:	
Correspondence Address:	-
Filer:	John Gross
Filer Authorized By:	
Attorney Docket Number:	
Receipt Date:	25-MAR-2016
Filing Date:	
Time Stamp:	21:33:38
Application Type:	

Payment information:

Submitted with Payment	no

File Listing:

IPR2025-00623
UIPATH EXHIBIT 1002

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Concise Description of Relevance	Concise-description-generated.pdf	29072 2c4b57b7fa696c51d3d28d7a170040f33ee6a1f4	no	2
Warnings:					
Information:					
2	Third-Party Submission Under 37 CFR 1.290	Third-party-preissuance-submission.pdf	41089 6ac13d04db85e43861a9205dd2ce0d420b501b25	no	2
Warnings:					
Information:					
3	Request for Notification of Non-compliant Third-Party Submission	Third-party-notification-request.pdf	19653 73fb2113b648b08574863da189b3ebc670362481	no	1
Warnings:					
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		Total Files Size (in bytes):	89814		

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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/960,309	12/04/2015	Sharon Gill CHADHA	79531-000022

CONFIRMATION NO. 1063

98275
Seyfarth Shaw LLP
2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3063

PUBLICATION NOTICE

OC000000081676506

Title:REAL-TIME AND ADAPTIVE DATA MINING

Publication No.US-2016-0085823-A1
Publication Date:03/24/2016

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	14960309
Filing Date	2015-12-15
First Named Inventor	Sharon Gill CHADHA
Art Unit	2167
Examiner Name	
Attorney Docket Number	79531-000022

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8498889	B1	2013-07-30	Roy E. Marsten	
	2	8301486	B1	2012-10-30	Roy Earl Marsten	
	3	8078489	B1	2011-12-13	Roy E. Marsten	
	4	6260041	B1	2001-07-10	Carlos M. Gonzalez et al.	

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	1	20130325838	A1	2013-12-05	Ying-Hsiang Liao	
	2	20130282702	A1	2013-10-24	Shenhong Zhu et al.	

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	Attorney Docket Number	79531-000022

	3	20120150645	A1	2012-06-14	Srinivas A. Mandyam et al.	
	4	20110047161	A1	2011-02-24	Sung Hyon Myaeng et al.	
	5	20080270344	A1	2008-10-30	Steven J. Yurick et al.	
	6	20080201339	A1	2008-08-21	Robert J. McGrew et al.	
	7	20050283473	A1	2005-12-22	Armand Rousso et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14960309
	Filing Date	2015-12-15
	First Named Inventor	Sharon Gill CHADHA
	Art Unit	2167
	Examiner Name	
	Attorney Docket Number	79531-000022

	1	INTERNATIONAL SEARCH REPORT AND WRITTEN OPINION - PCT/US2014/044134 - ISA/US - 2015-04-01 (79531-000005).

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Examiner Signature		Date Considered	

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	Examiner Name	
	Attorney Docket Number	79531-000022

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Puya Partow-Navid/	Date (YYYY-MM-DD)	2016-03-04
Name/Print	Puya Partow-Navid	Registration Number	59657

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Seyfarth Shaw LLP
IP Docketing
DATE REC'D: 4Jun14
Rec'd By:
Reported By:

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: PUYA PARTOW-NAVID
SEYFARTH SHAW LLP
SUITE 3500
2029 CENTURY PARK EAST
LOS ANGELES, CA 90067-3021

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference 79531-000005	Date of mailing *(day/month/year)* **FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US 14/44134	International filing date *(day/month/year)* 25 June 2014 (25.06.2014)
Applicant RULE 14	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

   Filing of amendments and statement under Article 19:
   The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

   When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

   How? Directly to the International Bureau of WIPO preferably through ePCT or on paper to, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

   For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 – 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
   ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.
   ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

   The applicant may **submit comments on an informal basis on the written opinion of the International Searching Authority** to the International Bureau. These comments will be made available to the public after international publication. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established.

   Shortly after the expiration of **18 months from the priority date, the international application will be published** by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

   Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for **entry into the national phase** before those designated Offices. In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months. For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

   Within **19 months from the priority date, the applicant may request that a supplementary international search be carried out** by a different International Searching Authority that offers this service (Rule 45*bis*.1). The procedure for requesting supplementary international search is described in the *PCT Applicant's Guide*, International Phase, paragraphs 8.006-8.032.

Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer Lee W. Young PCT Helpdesk: 571-272-4300 Telephone No. PCT OSP: 571-272-7774

Form PCT/ISA/220 (July 2014)

IPR2025-00623
UIPATH EXHIBIT 1002

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: PUYA PARTOW-NAVID
SEYFARTH SHAW LLP
SUITE 3500
2029 CENTURY PARK EAST
LOS ANGELES, CA 90067-3021

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference 79531-000005	Date of mailing *(day/month/year)* 01 APR 2015 **FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US 14/44134	International filing date *(day/month/year)* 25 June 2014 (25.06.2014)
Applicant RULE 14	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

   Filing of amendments and statement under Article 19:
   The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

   When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

   How? Directly to the International Bureau of WIPO preferably through ePCT or on paper to, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

   For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 – 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
   ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.
   ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

   The applicant may **submit comments on an informal basis on the written opinion of the International Searching Authority** to the International Bureau. These comments will be made available to the public after international publication. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established.

   Shortly after the expiration of **18 months from the priority date, the international application will be published** by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

   Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for **entry into the national phase** before those designated Offices. In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months. For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

   Within **19 months from the priority date, the applicant may request that a supplementary international search be carried out** by a different International Searching Authority that offers this service (Rule 45*bis*.1). The procedure for requesting supplementary international search is described in the *PCT Applicant's Guide*, International Phase, paragraphs 8.006-8.032.

Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer Lee W. Young Telephone No. PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/220 (July 2014)

IPR2025-00623
UIPATH EXHIBIT 1002

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 79531-000005	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US 14/44134	International filing date *(day/month/year)* 25 June 2014 (25.06.2014)	(Earliest) Priority Date *(day/month/year)* 26 June 2013 (26.06.2013)
Applicant RULE 14		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

   a. With regard to the **language**, the international search was carried out on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

   b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

   c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (see Box No. II).

3. ☐ **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

   ☒ the text is approved as submitted by the applicant.

   ☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

   ☒ the text is approved as submitted by the applicant.

   ☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

   a. the figure of the **drawings** to be published with the abstract is Figure No. 2

   ☐ as suggested by the applicant.

   ☐ as selected by this Authority, because the applicant failed to suggest a figure.

   ☒ as selected by this Authority, because this figure better characterizes the invention.

   b. ☐ none of the figures is to be published with the abstract.

Form PCT/ISA/210 (first sheet) (July 2009)

IPR2025-00623
UIPATH EXHIBIT 1002

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 14/44134

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G06F 7/00 (2014.01)
CPC - G06F 17/30864
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC: G06F 7/00 (2014.01),
CPC: G06F17/30864

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC:(707/708 or 707/705 or 707/999.001 or 707/999.006 or 707/999.003)
IPC(8): G06F 7/00 (2014.01) ,CPC: (G06F17/30864 or G06F17/30867 or G06Q30/02 or G06F17/3089 or G06F17/30011)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Google Scholar; Google patents; PatBase
Search Terms : analyze, data, generate, query, monitor, search engine, real time datamining, bots, extractors, natural language processors.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — Y	US 6,260,041 B1 (Gonzalez et al.) 10 July 2001 (10.07.2001), entire document especially col 2, ln 21-24, col 1, ln 49- 50, col 5, ln 11-15 and col 3, ln 42-46.	1 , 6, 8-10, 19 — 2-5, 7, 11-18, 20-21
Y	US 2012/0150645 A1 (Mandyam et al.) 14 June 2012 (14.06.2012) entire document especially col 3, ln 38-45, col 4, ln 21-24,col 5 and ln 31-40.	2-3, 11-18, 20
Y	US 2005/0283473 A1 (Rousso et al.) 22 December 2005 (22.12.2005) entire document especially paragraphs [0024], [0075], [0079], para [0066], para [0077] and para [0120].	4, 5, 7, 13, 14, 16 and 21

☐ Further documents are listed in the continuation of Box C. ☐

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
13 October 2014 (13.10.2014)	01 APR 2015
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

IPR2025-00623
UIPATH EXHIBIT 1002

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: PUYA PARTOW-NAVID
SEYFARTH SHAW LLP
SUITE 3500
2029 CENTURY PARK EAST
LOS ANGELES, CA 90067-3021

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	01 APR 2015
Applicant's or agent's file reference 79531-000005	FOR FURTHER ACTION See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US 14/44134	25 June 2014 (25.06.2014)	26 June 2013 (26.06.2013)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 7/00 (2014.01)
CPC - G06F 17/30864

Applicant RULE 14

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to th IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Fom PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	13 October 2014 (13.10.2014)	Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

IPR2025-00623
UIPATH EXHIBIT 1002

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 14/44134

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

☒ the international application in the language in which it was filed.

☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

a. (means)

☐ on paper

☐ in electronic form

b. (time)

☐ in the international application as filed

☐ together with the international application in electronic form

☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 14/44134

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	2-5, 7, 11-18, 20-21	YES
	Claims	1, 6, 8-10, 19	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-21	NO
Industrial applicability (IA)	Claims	1-21	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1, 6, 8-10 and 19 lack novelty under PCT Article 33(2) as being anticipated by US 6,260,041 B1 to Gonzalez et al(hereinafter 'Gonzalez').

Regarding claim 1, Gonzalez discloses a method of analyzing data (col 2, ln 21-24, a monitoring and retrieval apparatus and (corresponding method) is embodied in a fast internet real-time search technology (FIRST) system, as illustrated in FIG.1.), comprising: generating a query based at least in part on a topic of interest (col 1, ln 49- 50, inputting and editing a list of desired search terms, and a list of resource locations to be monitored.); expanding search terms of the query (col 2, ln 50- 54, In the client file therefore the user could enter the company name Oracle. or Oracle Corporation. as its desired search terms, together with any additional search terms such as the stock symbol .ORCL.); executing the query on a plurality of data sources (col 5, ln 11-15, the invention may easily be deployed to monitor other communication networks (e.g., intranets, private bulletin boards, individual local or wide area networks, proprietary chat rooms, ICQ, IRC channels, instant messaging systems, ThirdVoice postings, etc.); and monitoring at least one specific data source selected from the plurality of data sources for matches to the query (col 3, ln 42-46 In operation, the illustrated embodiment described above allows the FIRST system to monitor and retrieve information from one or more predetermined resources in accordance with the operational flow depicted in FIG. 3 in (steps S30 through S38).

Regarding claim 6, Gonzalez discloses a method and an apparatus, in which the plurality of data sources include open source data sources that are publically available and closed-source data sources that are not publically accessible (col 5, ln 11-15, the invention may easily be deployed to monitor other communication networks (e.g., intranets, private bulletin boards, individual local or Wide area networks, proprietary chat rooms, ICQ, IRC channels, instant messaging systems, ThirdVoice postings, etc).

Regarding claim 8, Gonzalez discloses a method and an apparatus in which the plurality of data sources are pre-defined (col 3, ln 42-46, in operation, the illustrated embodiment described above allows the FIRST system to monitor and retrieve information from one or more predetermined resources in accordance with the operational flow depicted in FIG. 3 in (steps S30through S38)).

Regarding claim 9, Gonzalez discloses an apparatus in which the at least one processor is further configured to deploy extractors to each of specific data source, a number of extractors being dynamic based at least in part on a traffic volume of each specific data source (col 3, ln 13- 20 In the preferred embodiment, a single bot is assigned to perform a single script in the script directory 16, although other embodiments could permit multiple scripts being executed by a single bot (or a single script being executed by multiple bots), as desired. Each bot is preferably programmed uniquely in accordance with the tasks required).

Regarding claim 10, Gonzalez discloses an apparatus configured to analyze data (col 2, ln 21-24, a monitoring and retrieval apparatus and (corresponding method) is embodied in a fast internet real-time search technology (FIRST) system, as illustrated in FIG.1.), the apparatus comprising: a memory unit; and at least one processor coupled to the memory unit, in which the at least one processor is configured(col 2, ln 37-40, As illustrated in FIG. 2, a central processing unit (CPU) 20 is provided for execution of one or more computer programs stored in a recording medium such as memory 22): to generate a query based at least in part on a topic of interest(col 1, ln 49-50, inputting and editing a list of desired search terms, and a list of resource locations to be monitored.); to expand search terms of the query(col 2, ln 50- 54, In the client file therefore the user could enter the company name .Oracle. or .Oracle Corporation..as its desired search terms, together with any additional search terms such as the stock symbol .ORCL.); to execute the query on a plurality of data sources(col 5, ln 11-14, the invention may easily be deployed to monitor other communication networks (e.g., intranets, private bulletin boards, individual local or wide area networks, proprietary chat rooms, ICQ, IRC channels, instant messaging systems, ThirdVoice postings, etc.); and to monitor at least one specific data source selected from the plurality of data sources for matches to the query(col 3, ln 42-46 In operation, the illustrated embodiment described above allows the FIRST system to monitor and retrieve information from one or more predetermined resources in accordance with the operational flow depicted in FIG. 3 in (steps S30 through S38).

-Continuation in Supplemental Box-

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:
Box V, 2: Citations and Explanations:

Regarding claim 19, Gonzalez discloses a computer program product for data analysis (col 5, ln 39-45, Indeed, even a single general purpose computer executing a computer program stored on a recording medium to produce the functionality and any other memory devices referred to herein may be utilized to implement the illustrated embodiments), the computer program product comprising: a non-transitory computer-readable medium having program code recorded thereon (col 2, ln 37-40, As illustrated in FIG. 2, a central processing unit (CPU) 20 is provided for execution of one or more computer programs stored in a recording medium such as memory 22.):, the program code comprising program code to generate a query based at least in part on a topic of interest(col 1, ln 49- 50, inputting and editing a list of desired search terms, and a list of resource locations to be monitored.); program code to expand search terms of the query(col 2, ln 50- 54, In the client file therefore the user could enter the company name .Oracle. or .Oracle Corporation. as its desired search terms, together with any additional search terms such as the stock symbol .ORCL.); program code to execute the query on a plurality of data sources(col 5, ln 11-15 the invention may easily be deployed to monitor other communication networks (e.g., intranets, private bulletin boards, individual local or wide area networks, proprietary chat rooms, ICQ, IRC channels, instant messaging systems, ThirdVoice postings, etc.); and program code to monitor at least one specific data source selected from the plurality of data sources for matches to the query(col 3, ln 42-46 In operation, the illustrated embodiment described above allows the FIRST system to monitor and retrieve information from one or more pre-determined resources in accordance with the operational flow depicted in FIG. 3 in (steps S30 t0 through S38).

Claims 2, 3, 11, 12, 15, 17-18 and 20 lack an inventive step under PCT Article 33(3) as being obvious over Gonzalez in view of US 2012/0150645 A1 to Mandyam et al. (hereinafter 'Mandyam').

Regarding claim 2, Gonzalez discloses a method further comprising extracting data from the at least one monitored specific data source (col 1, ln 44-48, method of monitoring and retrieving identifiable statements and other information pertinent to one or more desired search terms or concepts); analyzing the extracted data (col 1, ln 50 -58, A server causes the periodic access of each resource location listed to determine whether any information on a particular resource location has been added that is pertinent to the desired search terms since the previous visit to the location. Any added information is returned to the server for processing. An alert message can be generated and forwarded to an intended recipient to alert the recipient of the added information).
Gonzalez does not expressly disclose establishing a communication channel with a user based at least in part on the analyzed data; and receiving feedback from the user based at least in part on the generated feedback. However, Mandyam does teach establishing a communication channel (para [0017], Then the system 10 according to aspects of an embodiment of the disclosed subject matter, can send to selected users (which could be all users or a sub-set of all users) in the target market, represented illustratively only by wireless remote units 20 a and 20 b along with wireless remote units 24 a and 24 b and computers 76 a-c, an advertisement, e.g., a display advertisement for sushi restaurants) with a user based at least in part on the analyzed data; (para [0020], Such granularity may be selected or dictated by an analysis of the incoming accessing requests and the then current location(s) of the users seeking such accessing (i.e., by conducting a search, by utilizing a link, or otherwise logging-on to a pertinent web-site or web-page, etc.) and receiving feedback from the user based at least in part on the generated feedback (para [0025], This may be done in an ongoing fashion, such that, if only a relatively small number of users are reacting to the delivery of the advertisement in a certain geographic area, or after the passage of some measurable time, or over a certain selected media, then the delivery of the advertisement could be modified or cancelled where it is being demonstrated to not be effective or be relatively less effective. Similarly positive user feedback information could lead to extending the target market 30, geographically, temporally or otherwise). It would have been obvious to one of ordinary skill in the art to modify the method of Gonzalez to use the communication channel and feedback system as in Mandyam because it allows more relevant results to be provided to the user.

Regarding claim 3, Gonzalez discloses a method further comprising visualizing at least the extracted data, the analyzed data, or a combination thereof. (col 2, ln 28- 30, Maximillian server 12 receives inputs and delivers output to users through user interface).

Regarding claim 11, Gonzalez discloses an apparatus in which the at least one processor is further configured: to extract data from the at least one monitored specific data source (col 1, ln 44-48, method of monitoring and retrieving identifiable statements and other information pertinent to one or more desired search terms or concepts); to analyze the extracted data(col 1, ln 50 -58, A server causes the periodic access of each resource location listed to determine whether any information on a particular resource location has been added that is pertinent to the desired search terms since the previous visit to the location. Any added information is returned to the server for processing. An alert message can be generated and forwarded to an intended recipient to alert the recipient of the added information);
Gonzalez does not expressly disclose establishing a communication channel with a user based at least in part on the analyzed data; and receiving feedback from the user based at least in part on the generated feedback. However, Mandyam does teach to establish a communication channel (para [0017], Then the system 10 according to aspects of an embodiment of the disclosed subject matter, can send to selected users (which could be all users or a sub-set of all users) in the target market, represented illustratively only by wireless remote units 20 a and 20 b along with wireless remote units 24 a and 24 b and computers 76 a-c, an advertisement, e.g., a display advertisement for sushi restaurants) with a user based at least in part on the analyzed data; and to receive feedback from the user based at least in part on the generated feedback(para [0025], This may be done in an ongoing fashion, such that, if only a relatively small number of users are reacting to the delivery of the advertisement in a certain geographic area, or after the passage of some measurable time, or over a certain selected media, then the delivery of the advertisement could be modified or cancelled where it is being demonstrated to not be effective or be relatively less effective. Similarly positive user feedback information could lead to extending the target market 30, geographically, temporally or otherwise). It would have been obvious to one of ordinary skill in the art to modify apparatus of Gonzalez to use the communication channel and feedback system as in Mandyam because more relevant results to be provided to the user.

Regarding claim 12, Gonzalez discloses an apparatus in which the at least one processor is further configured to visualize at least the extracted data, the analyzed data, or a combination thereof. (col 2, ln 28- 30, Maximillian server 12 receives inputs and delivers output to users through user interface).
-Continuation in Supplemental Box-

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Regarding claim 15, Gonzalez teaches an apparatus in which the plurality of data sources include opensource data sources that are publically available and closed-source data sources that are not publically accessible. (col 5, ln 11-15, the invention may easily be deployed to monitor other communication networks (e.g., intranets, private bulletin boards, individual local or Wide area networks, proprietary chat rooms, ICQ, IRC channels, instant messaging systems, ThirdVoice postings, etc.).

Regarding claim 17, Gonzalez teaches an apparatus, in which the plurality of data sources are predefined (col 3, ln 42-46, In operation, the illustrated embodiment described above allows the FIRST system to monitor and retrieve information from one or more predetermined resources in accordance with the operational flow depicted in FIG. 3 in (steps S30through S38)).

Regarding claim 18, Gonzalez discloses an apparatus, in which the at least one processor is further configured to deploy extractors to each of specific data source, a number of extractors being dynamic based at least in part on a traffic volume of each specific data source (col 3, ln 13- 20 In the preferred embodiment, a single bot is assigned to perform a single script in the script directory16, although other embodiments could permit multiple scripts being executed by a single bot (or a single script being executed by multiple bots), as desired. Each bot is preferably programmed uniquely in accordance with the tasks required).

Regarding claim 20, Gonzalez discloses a computer program, further comprising: program code to extract data from the at least one monitored specific data source (col 1, ln 44-48, method of monitoring and retrieving identifiable statements and other information pertinent to one or more desired search terms or concepts); program code to analyze the extracted data (col 1, ln 50 -58, A server causes the periodic access of each resource location listed to determine whether any information on a particular resource location has been added that is pertinent to the desired search terms since the previous visit to the location. Any added information is returned to the server for processing. An alert message can be generated and forwarded to an intended recipient to alert the recipient of the added information);
Gonzalez does not expressly disclose a program code to establish a communication channel with a user based at least in part on the analyzed data; and program code to receive feedback from the user based at least in part on the generated feedback.
However, Mandyam does teach a program code to establish a communication channel (para [0017], Then the system10 according to aspects of an embodiment of the disclosed subject matter, can send to selected users (which could be all users or a sub-set of all users) in the target market, represented illustratively only by wireless remote units 20 a and 20 b along with wireless remote units 24 a and 24 b and computers 76 a-c, an advertisement, e.g., a display advertisement for sushi restaurants) with a user based at least in part on the analyzed data; (para [0020], Such granularity may be selected or dictated by an analysis of the incoming accessing requests and the then current location(s) of the users seeking such accessing (i.e., by conducting a search, by utilizing a link, or otherwise logging-on to a pertinent web-site or web-page, etc.) and receiving feedback from the user based at least in part on the generated feedback (para [0025], This may be done in an ongoing fashion, such that, if only a relatively small number of users are reacting to the delivery of the advertisement in a certain geographic area, or after the passage of some measurable time, or over a certain selected media, then the delivery of the advertisement could be modified or cancelled where it is being demonstrated to not be effective or be relatively less effective. Similarly positive user feedback information could lead to extending the target market 30, geographically, temporally or otherwise). It would be obvious to one of ordinary skill in the art to modify disclosure of Gonzalez to use the communication channel and feedback system as in Mandyam because more relevant results would be provided to the user.

Claims 4, 5, 7 and 21 lack an inventive step under PCT Article 33(3) as being obvious over Gonzalez in view of US 2005/0283473 A1 to Rousso et al (hereinafter 'Rousso').

Regarding claim 4, Gonzalez discloses a method in which expanding the query comprises expanding the search terms (col 2, ln 50- 54, In the client file therefore the user could enter the company name .Oracle. or .Oracle Corporation. as its desired search terms, together with any additional search terms such as the stock symbol .ORCL.). Gonzalez fails to expressly disclose including at least misspellings, synonyms, sub-topics, antonyms, or a combination thereof.
However, Rousso does teach a method, in which expanding the query comprises expanding the search terms (para [0024], The AIDSA augments and expands a searcher's vocabulary by producing related keyword query terms that may be more suited to what the user is actually looking for) to include at least misspellings (para[0075], These related query terms 490 are provided and alternative spellings may be provided for the query terms as well as the common misspelling of those Words), synonyms, sub-topics (para [0059], In an alternative embodiment, the query may be comprised of metadata keywords in the web page or it may be based on just the title of the web site article.), antonyms, or a combination thereof (para [0079], In alternative embodiments, hypernyms, hyponyms, antonyms, proximate coordinate terms, etc. are used as the basis of lookups in the related Word database to further expand identification of related Words. Upon expending their original keyword terms 465, that query 465 is combined with any alternative spellings 480 and/or partial Words 490 and provided to the data selector). It would have been obvious to one of ordinary skill in the art to add Rousso's method of expansion of queries comprising expanding the search terms to include at least misspellings, synonyms, sub-topics, antonyms, or a combination thereof to Gonzalez query expansion involving expanding the search terms because it would allow a thorough search to conducted and provide more accurate results.

Regarding claims 5 and 21, Gonzalez discloses the monitoring is performed to monitor for matches to a query(col 3,ln 42-46 In operation, the illustrated embodiment described above allows the FIRST system to monitor and retrieve information from one or more predetermined resources in accordance with the operational flow depicted in FIG. 3 in (steps S30 through S38), but fails to discloses refining the search terms based at least in part on the executed query; and a refined query. However, Rousso does teach refining the search terms based at least in part on the executed query and a refined query (para [0066], In one embodiment, as the user changes emphasis values, the query is continually being reexecuted based on the varied emphasis values, and search results are changed and shown to the user interactively). It would have been obvious to one of ordinary skill in the art to add Rousso's method of re-executing the query based on the refinement made to the search terms to Gonzalez's method of monitoring matches of a query because it would help the user to be aware of updates to the information he has searched using further refinement of the query.

-Continuation in Next Supplmental Box-

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:
-Continuation in Preceding Supplmental Box-

Regarding claim 7, Gonzalez fails to disclose a method, in which the query is a natural language query. However Rousso does teach a method, in which the query is a natural language query (para [0077], Further, word order can help the determine the grammatical type of the word. For example, if the search query is .reviews that run cars with liquid fuel. then the word .run. would be interpreted to more likely be a verb as it is in the middle of the supplied query. In an example where the search is .the run that caused people to get very tired. the AIDA would interpret .run. top be a noun as it is towards the beginning of the query where the subject is typically specified. As such, word order can provide greater context and emphasis to provided queries), and further comprising translating the query to a system understood language. (para [0120], entries made into supplied fields in the Web form are tagged as having been entered into the particular fields, and parsed as such. The entered terms are then passed along with the field tags, which act to instruct the parser to generate queries directed to appropriate tables and/or fields. In one embodiment, the parser may generate queries in standard SQL by instantiating a search string with the proper join/select commands based on the tagged text entries, wherein the resulting command is provided over the bridge mechanism to the AIDSA as a query. Upon generating query results from the query, the results are passed over the bridge mechanism, and may be parsed for formatting and generation of new results Web page by the bridge mechanism. Such a new results Web page is then provided to the information server, which may supply it to the requesting Web browser). It would be obvious to one of ordinary skill in the art to modify Gonzalez to use a natural language query and translate the query to a system understood language as taught by Rousso.s use of natural language query for searching and translating the query to a system understood language by using a parser which may generate queries in standard SQL because it will help the user to use natural languages while searching to make searching easier and convenient.

Claims 13, 14 and 16 lack an inventive step under PCT Article 33(3) as being obvious over Gonzalez in view of Mandyam and further in view of Rousso.

Regarding claim 13, Gonzalez discloses an apparatus in which expanding the query comprises expanding the search terms (col 2, ln 50-54, In the client file therefore the user could enter the company name .Oracle. or .Oracle Corporation. as its desired search terms, together with any additional search terms such as the stock symbol .ORCL.). Gonzalez and Mandyam fail to expressly disclose including at least misspellings, synonyms, sub-topics, antonyms, or a combination.
However, Rousso does teach an apparatus, in which expanding the query comprises expanding the search terms (para [0024], The AIDSA augments and expands a searcher's vocabulary by producing related keyword query terms that may be more suited to what the user is actually looking for) to include at least misspellings (para[0075], These related query terms 490 are provided and alternative spellings may be provided for the query terms as well as the common misspelling of those Words), synonyms, sub-topics (para [0059], In an alternative embodiment, the query may be comprised of metadata keywords in the web page or it may be based on just the title of the web site article.), antonyms, or a combination thereof (para [0079], In alternative embodiments, hypernyms, hyponyms, antonyms, proximate coordinate terms, etc. are used as the basis of lookups in the related Word database to further expand identification of related Words. Upon expending their original keyword terms 465, that query 465 is combined with any alternative spellings 480 and/or partial Words 490 and provided to the data selector). It would have been obvious to one of ordinary skill in the art to add Rousso's expansion of queries comprising expanding the search terms to include at least misspellings, synonyms, sub-topics, antonyms, or a combination thereof to Gonzalez and Mandyam because query expansion involving expanding the search terms would conduct a thorough search and provide more accurate results.

Regarding claim 14, Gonzalez discloses the monitoring is performed to monitor for matches to a query(col 3,ln 42-46 In operation, the illustrated embodiment described above allows the FIRST system to monitor and retrieve information from one or more predetermined resources in accordance with the operational flow depicted in FIG. 3 in (steps S30 through S38). Gonzalez and Mandyam fail to disclose refining the search terms based at least in part on the executed query; and a refined query. However, Rousso does teach refining the search terms based at least in part on the executed query and a refined query (para [0066], In one embodiment, as the user changes emphasis values, the query is continually being reexecuted based on the varied emphasis values, and search results are changed and shown to the user interactively). It would have been obvious to one of ordinary skill in the art to add Rousso's method of re-executing the query based on the refinement made to the search terms to Gonzalez and Mandyam method of monitoring matches of a query because it would help the user to be aware of updates to the information he has searched using further refinement of the query.

Regarding claim 16, Gonzalez in combination with Mandyam fail to disclose an apparatus, in which the query is a natural language query and in which the at least one processor is further configured to translate the query to a system understood language.
However Rousso does teach an apparatus, in which the query is a natural language query (para [0077], Further, word order can help the determine the grammatical type of the word. For example, if the search query is .reviews that run cars with liquid fuel. then the word .run. would be interpreted to more likely be a verb as it is in the middle of the supplied query. In an example where the search is .the run that caused people to get very tired. the AIDA would interpret .run. top be a noun as it is towards the beginning of the query where the subject is typically specified. As such, word order can provide greater context and emphasis to provided queries), and in which the at least one processor is further configured to translate the query to a system understood language(para [0120], entries made into supplied fields in the Web form are tagged as having been entered into the particular fields, and parsed as such. The entered terms are then passed along with the field tags, which act to instruct the parser to generate queries directed to appropriate tables and/or fields. In one embodiment, the parser may generate queries in standard SQL by instantiating a search string with the proper join/select commands based on the tagged text entries, wherein the resulting command is provided over the bridge mechanism to the AIDSA as a query. Upon generating query results from the query, the results are passed over the bridge mechanism, and may be parsed for formatting and generation of new results Web page by the bridge mechanism. Such a new results Web page is then provided to the information server, which may supply it to the requesting Web browser). It would have been obvious to one of ordinary skill in the art to modify Gonzalez in combination with Mandyam to use a natural language query and translate the query to a system understood language as taught by Rousso's use of natural language query for searching and translating the query to a system understood language by using a parser which may generate queries in standard SQL because it will help the user to use natural languages while searching to make searching easier and convenient.

Claims 1-21 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

Electronic Acknowledgement Receipt

EFS ID:	25111763
Application Number:	14960309
International Application Number:	
Confirmation Number:	1063
Title of Invention:	REAL-TIME AND ADAPTIVE DATA MINING
First Named Inventor/Applicant Name:	Sharon Gill CHADHA
Customer Number:	98275
Filer:	Puya Partow-Navid/Anna Tounian
Filer Authorized By:	Puya Partow-Navid
Attorney Docket Number:	79531-000022
Receipt Date:	04-MAR-2016
Filing Date:	04-DEC-2015
Time Stamp:	20:13:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	79531-22_IDS_AsFiled_04March2016.pdf	1043067 42a77ceed573d93476d557f0a6a39a11adfb3aa0	no	5

Warnings:	
Information:	

IPR2025-00623
UIPATH EXHIBIT 1002

2	Non Patent Literature	NPL-ISR_WO.pdf	1197418 c39aa017ace0b3da99b0556b55b992886b3103bd	no	10

Warnings:	
Information:	
Total Files Size (in bytes):	2240485

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IPR2025-00623
UIPATH EXHIBIT 1002

Docket No.: 79531-000022

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Sharon Gill CHADHA et al.	Customer No.: 98275
Application No.: 14/960,309	Art Unit: 2167
Filed: December 4, 2015	Conf. No.: 1063
For: REAL-TIME AND ADAPTIVE DATA MINING	Examiner: Not Yet Assigned

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

PRELIMINARY AMENDMENT

Dear Sir:

Prior to examining the above-referenced application, please enter the following amendments:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims, which begins on page 3 of this paper.

Remarks begin on page 7 of this paper.

Amendments to the Specification:

Please amend paragraph [0001], as follows:

[0001] This application is a continuation-in-part of U.S. Patent Application No. 13/928,313, entitled "REAL-TIME AND ADAPTIVE DATA MINING," filed on June 26, 2013, now U.S. Patent No. 9,229,977, which claims the benefit under 35 U.S.C. § 119(e) to United States Provisional Patent Application No. 61/679,024 entitled "LOSS PREVENTION SERVICES PLATFORM BASED ON MACHINE LEARNING," filed on August 2, 2012, the disclosures of which are expressly incorporated by reference herein in their entireties.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of analyzing data, comprising:

generating a query based at least in part on a topic of interest;

executing the query on a plurality of data sources; [[and]]

monitoring, based on a set schedule, at least one specific data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof; and

establishing a communication channel, with a second user, based at least in part on the data extracted from the at least one monitored data source.

2. (New) The method of claim 1, further comprising:

analyzing the extracted data; and

receiving feedback from the user based at least in part on the established communication channel.

3. (New) The method of claim 2, further comprising visualizing at least one of the extracted data, the analyzed data, or a combination thereof.

4. (New) The method of claim 1, further comprising:

refining the search terms based at least in part on the executed query, and in which the monitoring is performed to monitor for matches to a refined query.

5. (New) The method of claim 1, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that at not publically accessible.

6. (New) The method of claim 1, in which the query is a natural language query, and further comprising translating the query to a system understood language.

7. (New) The method of claim 1, in which the plurality of data sources are pre-defined.

8. (New) The method of claim 1, further comprising:

expanding search terms of the query; and

selecting the at least one data source from the plurality of data sources, the at least one data source being selected when results of the query are greater than or equal to an accuracy thresholds.

9. (New) The method of claim 8, in which expanding the query comprises expanding the search terms to include at least misspellings, synonyms, sub-topics, antonyms, or a combination thereof.

10. (New) The method of claim 1, in which the monitoring comprises deploying extractors to each of specific data source, a number of extractors being dynamic based at least in part on a traffic volume of each specific data source.

11. (New) An apparatus for analyzing data, the apparatus comprising:

a memory; and

at least one processor coupled to the memory, the at least one processor being configured:

to generate a query based at least in part on a topic of interest;

to execute the query on a plurality of data sources;

to monitor, based on a set schedule, at least one specific data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof; and

to establish a communication channel, with a second user, based at least in part on the data extracted from the at least one monitored data source.

12. (New) The apparatus of claim 11, in which the at least one processor is further configured:

to analyze the extracted data; and

to receive feedback from the user based at least in part on the established communication channel.

13. (New) The apparatus of claim 12, in which the at least one processor is further configured to visualize at least one of the extracted data, the analyzed data, or a combination thereof.

14. (New) The apparatus of claim 11, in which the at least one processor is further configured:

to refine the search terms based at least in part on the executed query,

to monitor for matches to a refined query.

15. (New) The apparatus of claim 11, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that at not publically accessible.

16. (New) A non-transitory computer-readable medium having program code recorded thereon for analyzing data, the program code being executed by a processor and comprising:

program code to generate a query based at least in part on a topic of interest;

program code to execute the query on a plurality of data sources;

program code to monitor, based on a set schedule, at least one specific data source selected from the plurality of data sources for matches to the query from the plurality of data sources to extract data from the at least one data source when at least an update to stored data matches the query, newly added data matches the query, or a combination thereof; and

program code to establish a communication channel, with a second user, based at least in part on the data extracted from the at least one monitored data source.

17. (New) The non-transitory computer-readable medium of claim 16, in which the program code further comprises:

program code to analyze the extracted data; and

program code to receive feedback from the user based at least in part on the established communication channel.

18. (New) The non-transitory computer-readable medium of claim 16, in which the program code further comprises:

program code to refine the search terms based at least in part on the executed query,

program code to monitor for matches to a refined query.

19. (New) The non-transitory computer-readable medium of claim 16, in which the plurality of data sources include open-source data sources that are publically available and closed-source data sources that at not publically accessible.

20. (New) The non-transitory computer-readable medium of claim 16, in which the plurality of data sources are pre-defined.

REMARKS

Claim 1 is pending in this application. Claims 2-20 are newly submitted. The foregoing amendments to the claims contain no new matter. Applicants respectfully request entry of this amendment prior to examination of the application, and early favorable action thereon. Early and favorable consideration on the merits is earnestly and respectfully requested.

In light of the amendments and remarks, applicants submit that the claims are in condition for allowance and respectfully request a notice to this effect. Should the Examiner have any questions, please call the undersigned at the phone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. § 1.136 is submitted. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 50-2291 and please credit any excess fees to such deposit account.

Dated: January 12, 2016

Respectfully submitted,

By: /Puya Partow-Navid/
Puya Partow-Navid, Reg. No. 59,657
Attorney for Applicant

Seyfarth Shaw LLP
2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3021
Direct Dial (310) 201-1550
Facsimile (310) 201-5219

Electronic Acknowledgement Receipt

EFS ID:	24603992
Application Number:	14960309
International Application Number:	
Confirmation Number:	1063
Title of Invention:	REAL-TIME AND ADAPTIVE DATA MINING
First Named Inventor/Applicant Name:	Sharon Gill CHADHA
Customer Number:	98275
Filer:	Puya Partow-Navid/Anna Tounian
Filer Authorized By:	Puya Partow-Navid
Attorney Docket Number:	79531-000022
Receipt Date:	12-JAN-2016
Filing Date:	04-DEC-2015
Time Stamp:	20:56:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		79531-22_PrelimAmendment_AsFiled_12January2016.pdf	104176 d823800834675436b495a56e02f9b105c48d2291	yes	7

IPR2025-00623
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	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Preliminary Amendment	1	1
	Specification	2	2
	Claims	3	6
	Applicant Arguments/Remarks Made in an Amendment	7	7
Warnings:			
Information:			
	Total Files Size (in bytes):	104176	

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
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New International Application Filed with the USPTO as a Receiving Office
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IPR2025-00623
UIPATH EXHIBIT 1002

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/960,309	Filing Date 12/04/2015	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT

01/12/2016	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $40 =	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $210 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/DEANNA RORIE/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IPR2025-00623
UIPATH EXHIBIT 1002

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/960,309	Filing Date 12/04/2015	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT **01/12/2016**

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $40 =	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $210 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LDRC
/KEVIN HORN/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IPR2025-00623
UIPATH EXHIBIT 1002

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/960,309	12/04/2015	Sharon Gill CHADHA	79531-000022

CONFIRMATION NO. 1063

98275
Seyfarth Shaw LLP
2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3063

INFORMAL NOTICE

OC000000079367032

Date Mailed: 12/16/2015

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  Sharon Gill CHADHA
  Xin CHENG
  Parvinder CHADHA

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/thaile/

IPR2025-00623
UIPATH EXHIBIT 1002

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/960,309	12/04/2015		800	79531-000022	1	1

CONFIRMATION NO. 1063

98275
Seyfarth Shaw LLP
2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3063

FILING RECEIPT

OC000000079367031

Date Mailed: 12/16/2015

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Sharon Gill CHADHA, Santa Monica, CA;
Xin CHENG, San Diego, CA;
Parvinder CHADHA, Santa Monica, CA;

Applicant(s)

Rule 14, Santa Monica, CA;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CIP of 13/928,313 06/26/2013
which claims benefit of 61/679,024 08/02/2012

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 12/14/2015

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/960,309**

Projected Publication Date: 03/24/2016

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

REAL-TIME AND ADAPTIVE DATA MINING

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/960,309	12/04/2015	Sharon Gill CHADHA	79531-000022

CONFIRMATION NO. 1063

98275
Seyfarth Shaw LLP
2029 Century Park East, Suite 3500
Los Angeles, CA 90067-3063

OC000000079367035

Date Mailed: 12/16/2015

NOTICE OF ACCEPTANCE OF AUTHORIZATION TO PERMIT ACCESS TO APPLICATION VIA PRIORITY DOCUMENT EXCHANGE

This is in response to the applicant's authorization to permit access to the application-as-filed by participating offices under 37 CFR 1.14(h)(1) submitted on 12/04/2015.

The authorization to permit access to the application under 37 CFR 1.14(h)(1) is accepted.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/thaile/

IPR2025-00623
UIPATH EXHIBIT 1002

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 14/960,309

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	300		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	1 minus 20 =	*	x 40 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*	x 210 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	730		TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

IPR2025-00623
UIPATH EXHIBIT 1002

PTO/AIA/14 (07-14)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	79531-000022
	Application Number	
Title of Invention	REAL-TIME AND ADAPTIVE DATA MINING	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Sharon	Gill	CHADHA	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Santa Monica	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	3003 Pennsylvania Avenue
Address 2	

City	Santa Monica	State/Province	CA
Postal Code	90404	Country i	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Xin		CHENG	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	San Diego	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	3003 Pennsylvania Avenue
Address 2	

City	Santa Monica	State/Province	CA
Postal Code	90404	Country i	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Parvinder		CHADHA	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

PTO/AIA/14 (07-14)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	79531-000022
	Application Number	
Title of Invention	REAL-TIME AND ADAPTIVE DATA MINING	

City	Santa Monica	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	3003 Pennsylvania Avenue		
Address 2			
City	Santa Monica	State/Province	CA
Postal Code	90404	Country i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	98275		
Email Address	laxipdocket@seyfarth.com	Add Email	Remove Email

Application Information:

Title of the Invention	REAL-TIME AND ADAPTIVE DATA MINING		
Attorney Docket Number	79531-000022	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	14	Suggested Figure for Publication (if any)	1

Filing By Reference :

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country i

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

IPR2025-00623
UIPATH EXHIBIT 1002

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	79531-000022
	Application Number	
Title of Invention	REAL-TIME AND ADAPTIVE DATA MINING	

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	(•) Customer Number	( ) US Patent Practitioner	( ) Limited Recognition (37 CFR 11.9)
Customer Number	98275		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the application number blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation in part of	13928313	2013-06-26
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
13928313	Claims benefit of provisional	61679024	2012-08-02

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) [i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country [i]	Filing Date (YYYY-MM-DD)	Access Code [i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	79531-000022
	Application Number	
Title of Invention	REAL-TIME AND ADAPTIVE DATA MINING	

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	79531-000022
	Application Number	
Title of Invention	REAL-TIME AND ADAPTIVE DATA MINING	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	79531-000022
	Application Number	
Title of Invention	REAL-TIME AND ADAPTIVE DATA MINING	

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REAL-TIME AND ADAPTIVE DATA MINING

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application is a continuation-in-part of U.S. Patent Application No. 13/928,313, entitled "REAL-TIME AND ADAPTIVE DATA MINING," filed on June 26, 2013, which claims the benefit under 35 U.S.C. § 119(e) to United States Provisional Patent Application No. 61/679,024 entitled "LOSS PREVENTION SERVICES PLATFORM BASED ON MACHINE LEARNING," filed on August 2, 2012, the disclosures of which are expressly incorporated by reference herein in their entireties.

BACKGROUND

Field

[0002] Aspects of the present disclosure relate generally to data mining, and more particularly to providing a real-time data mining platform and interactive feedback platform.

Background

[0003] The Internet provides and generates large amounts of data on a daily basis. The data may be monitored from data sources, such as, but not limited to, social media, web feeds, customer feedback, internal company databases, and proprietary data silos. With the proper tools, the data extracted from the data sources may be used to provide analysis for various topics. For example, the extracted data may indicate patterns for domestic unrest or a customer's habits/patterns. More specifically, as an example, the extracted data may yield a consumers financial profile, retail history, social influences, and expressed interests.

[0004] Typical search engines are not designed for analyzing multiple data points in real time. Furthermore, the query of a search engine is limited to the exact search term. Moreover, a typical search engine is limited to querying indexed web sites. That is, search engines are typically limited to searching structured data sources. By some accounts, nearly seventy percent of web pages are not indexed by search engines. The non-indexed web pages may be, for example, proprietary data silos, web sites behind firewalls, and/or comment sections on a web

page. Accordingly, the information obtained via search engines is limited and is not desirable for real-time data analysis that is specified for automated data extraction.

[0005] Thus, as the demand for real-time information continues to increase, there exists a need for further improvements in data mining and web searching technologies. Preferably, these improvements should be applicable to all real-time data extraction technologies and the digital systems that employ these technologies.

[0006] This has outlined, rather broadly, the features and technical advantages of the present disclosure in order that the detailed description that follows may be better understood. Additional features and advantages of the disclosure will be described below. It should be appreciated by those skilled in the art that this disclosure may be readily utilized as a basis for modifying or designing other structures for carrying out the same purposes of the present disclosure. It should also be realized by those skilled in the art that such equivalent constructions do not depart from the teachings of the disclosure as set forth in the appended claims. The novel features, which are believed to be characteristic of the disclosure, both as to its organization and method of operation, together with further objects and advantages, will be better understood from the following description when considered in connection with the accompanying figures. It is to be expressly understood, however, that each of the figures is provided for the purpose of illustration and description only and is not intended as a definition of the limits of the present disclosure.

SUMMARY

[0007] According to an aspect of the present disclosure, a method of analyzing data is presented. The method includes generating a query based on a topic of interest. The method also includes expanding search terms of the query. The method further includes executing the query on one or more data sources. The method still further includes monitoring a specific data source selected from the one or more data sources. The monitoring is performed to monitor for matches to the query.

[0008] According to another aspect of the present disclosure, an apparatus for analyzing data is presented. The apparatus includes a memory unit and a processor(s) coupled to the memory unit. The processor(s) is configured to generate a query based on a topic of interest. The processor(s)

is also configured to expand search terms of the query. The processor(s) is further configured to execute the query on one or more data sources. The processor(s) is still further configured to monitor a specific data source selected from the one or more data sources. The monitoring is performed to monitor for matches to the query.

[0009] In yet another aspect of the present disclosure, a computer program product for data analysis having a non-transitory computer-readable medium is disclosed. The computer readable medium has non-transitory program code recorded thereon which, when executed by the processor(s), causes the processor(s) to perform operations of generating a query based on a topic of interest. The program code also causes the processor(s) to expand search terms of the query. The program code further causes the processor(s) to execute the query on one or more data sources. The program code still further causes the processor(s) to monitor a specific data source selected from the one or more data sources. The monitoring is performed to monitor for matches to the query.

[0010] Additional features and advantages of the disclosure will be described below. It should be appreciated by those skilled in the art that this disclosure may be readily utilized as a basis for modifying or designing other structures for carrying out the same purposes of the present disclosure. It should also be realized by those skilled in the art that such equivalent constructions do not depart from the teachings of the disclosure as set forth in the appended claims. The novel features, which are believed to be characteristic of the disclosure, both as to its organization and method of operation, together with further objects and advantages, will be better understood from the following description when considered in connection with the accompanying figures. It is to be expressly understood, however, that each of the figures is provided for the purpose of illustration and description only and is not intended as a definition of the limits of the present disclosure.

BRIEF DESCRIPTION OF THE DRAWINGS

[0011] The features, nature, and advantages of the present disclosure will become more apparent from the detailed description set forth below when taken in conjunction with the drawings in which like reference characters identify correspondingly throughout.

[0012] FIGURE 1 is a diagram illustrating a call flow for a data mining system according to an aspect of the present disclosure.

[0013] FIGURE 2 is a block diagram for a data mining system according to an aspect of the present disclosure.

[0014] FIGURE 3 illustrates various data visualization schemes according to aspects of the present disclosure.

[0015] FIGURES 4-8 are block diagrams for a data mining system according to aspects of the present disclosure.

[0016] FIGURE 9 illustrates a hierarchy of security rights according to an aspect of the present disclosure.

[0017] FIGURES 10A and 10B illustrate typical sequential data extraction schemes.

[0018] FIGURE 10C illustrates a parallel data extraction scheme according to an aspect of the present disclosure.

[0019] FIGURES 11 and 12 illustrate examples of data extraction and analysis according to an aspect of the present disclosure.

DETAILED DESCRIPTION

[0020] The detailed description set forth below, in connection with the appended drawings, is intended as a description of various configurations and is not intended to represent the only configurations in which the concepts described herein may be practiced. The detailed description includes specific details for the purpose of providing a thorough understanding of the various concepts. However, it will be apparent to those skilled in the art that these concepts may be practiced without these specific details. In some instances, well-known structures and components are shown in block diagram form in order to avoid obscuring such concepts.

[0021] Aspects of the data mining systems are presented with reference to various apparatus and methods. These apparatus and methods are described in the following detailed description and illustrated in the accompanying drawings by various blocks, modules, components, circuits, steps, processes, algorithms, etc. (collectively referred to as "elements"). These elements may be implemented using electronic hardware, computer software, or any combination thereof.

Whether such elements are implemented as hardware or software depends upon the particular application and design constraints imposed on the overall system.

[0022] By way of example, an element, or any portion of an element, or any combination of elements may be implemented with a "processing system" that includes one or more processors. Examples of processors include microprocessors, microcontrollers, digital signal processors (DSPs), field programmable gate arrays (FPGAs), programmable logic devices (PLDs), state machines, gated logic, discrete hardware circuits, and other suitable hardware configured to perform the various functionality described throughout this disclosure. One or more processors in the processing system may execute software. Software shall be construed broadly to mean instructions, instruction sets, code, code segments, program code, programs, subprograms, software modules, applications, software applications, software packages, routines, subroutines, objects, executables, threads of execution, procedures, functions, etc., whether referred to as software, firmware, middleware, microcode, hardware description language, or otherwise.

[0023] Accordingly, in one or more exemplary embodiments, the functions described may be implemented in hardware, software, firmware, or any combination thereof. If implemented in software, the functions may be stored on or encoded as one or more instructions or code on a non-transitory computer-readable medium. Computer-readable media includes computer storage media. Storage media may be any available media that can be accessed by a computer. By way of example, and not limitation, such computer-readable media can comprise RAM, ROM, EEPROM, CD-ROM or other optical disk storage, magnetic disk storage or other magnetic storage devices, or any other medium that can be used to carry or store desired program code in the form of instructions or data structures and that can be accessed by a computer. Disk and disc, as used herein, includes compact disc (CD), laser disc, optical disc, digital versatile disc (DVD), floppy disk and Blu-ray disc where disks usually reproduce data magnetically, while discs reproduce data optically with lasers. Combinations of the above should also be included within the scope of computer-readable media.

[0024] FIGURE 1 is a diagram illustrating a call flow for a data mining system 100 according to an aspect of the present disclosure. At block 102 a query is generated. The query may be a natural language query generated by a user. Alternatively, the query generation may be

automated from a query generator. The query generator may be based on artificial intelligence or a similar system.

[0025] At block 104 the query is expanded. In one configuration, the search terms of the query are expanded based on search lexicons. For example, the lexicons may be applied to expand the search using misspellings and derivations of the topic of interest/sub-topics. The lexicon may be generated based on user input and/or may be generated based on automatic word association, such as synonym/antonym trees and lexicons of positive and/or negative modifiers. The expansion of the query at block 104 may be performed by a user and/or may be automated.

[0026] At block 106, the query is executed. The query may be executed on open-source data and proprietary data. Specifically, in one configuration, the query may be limited to specific data sources (e.g., proprietary data sources and open-source data sources). In another configuration, the query searches all available data sources. In yet another configuration, the initial pass of the query is limited to open-source data sources.

[0027] Open-source data refers to publicly available data, such as data available via Wikipedia or the CIA fact book, for example. Sources that are indexed by search engines are also considered open-source data. Open-source data may also refer to data that is not proprietary but still not indexed by a search engine. For example, some sources, such as a blog, may include a comments section. The comments may be updated in real time and are typically not indexed by a search engine. Thus, because the comments are not indexed by a search engine, the contents of the comments are not available when conducting a search. Still, the information in the comments is publically available to anyone that visits a particular source. Therefore, the comments section, or any other non-indexed source may be considered open-source data.

[0028] Proprietary data is data that may not be searchable via a search engine because the proprietary data is not publically available. This may include classified databases, data behind a firewall, or data that is available via a paid subscription, such as Lexis.

[0029] At block 108 the results of the query are reviewed. If the results are satisfactory, specific data sources may be selected to be monitored. If the results are not satisfactory, the query may be expanded and/or refined at block 104. The refinement of the query may be refined based on data sources selected at block 108. At block 110 the selected data sources are monitored. The monitoring may be performed by data extractors that monitor changes to a data

source in real-time. When information at the data sources is updated or located to match the query terms, a data extractor extracts the data to be analyzed at block 112. In one configuration, a quality control analysis may also be performed on the extracted data (not shown). After analyzing the data, the extracted data may be visualized at block 114.

[0030] Additionally, after the data has been analyzed, at block 116, a communication channel may be established with specific individuals and/or other users based on the analyzed data. For example, if the data analysis reveals that a customer may be planning a trip to another country, the data mining system 100 may engage the customer to discuss cell phone data roaming plans and/or other services that may be desired by a customer that is traveling to another country. Furthermore, at block 118, customers and/or users may provide feedback. That is, the customers may provide feedback to the system via a pre-defined communication channel, such as a message board, phone, SMS, or email. The feedback is analyzed at block 112 to determine customer sentiment. Furthermore, in addition to or separate from the open forum, the feedback may also be generated based on the communication channel established at block 116.

[0031] In another configuration, the communication channel of block 116 may be established after the extracted data has been visualized at block 114. It should be noted, the communication channel of block 116 and the visualization of block 114 may be established in parallel or independently. Furthermore, in one configuration, the feedback received at block 118 may be visualized in block 114.

[0032] FIGURE 2 illustrates a data mining system 200 according to an aspect of the present disclosure. Those of skill would further appreciate that the various illustrative modules of FIGURE 2 may be implemented as electronic hardware, computer software, or combinations of both. To clearly illustrate this interchangeability of hardware and software, various illustrative components, blocks, modules, circuits, and steps have been described above generally in terms of their functionality. Whether such functionality is implemented as hardware or software depends upon the particular application and design constraints imposed on the overall system. Skilled artisans may implement the described functionality in varying ways for each particular application, but such implementation decisions should not be interpreted as causing a departure from the scope of the present disclosure.

[0033] The data mining system 200 may include a query module 202 for generating a query. As discussed above, in one configuration, a query is generated for searching specific data sources. In one configuration, the query is a natural language query. For example, the natural language query may be "I want to know the sentiment of wireless phone customers." The query represents a topic of interest (TOI), for example, the topic of interest may be a person, such as Michael Jackson, an event, such as the Arab Spring, a service, such as wireless phone, and/or any other informational element that may be queried.

[0034] Additionally, the data sources may include websites, private databases, public databases, and/or any data source that may be electronically accessed. Furthermore, the query may further specify the parties that hold the opinion, such as the author of the content. Thus, in one configuration, the query may specify the sources of the data, such as URLs, websites of specific countries, and/or internal/external data silos. Furthermore, the query may further specify the author of the specified data sources, such as, main stream media, bloggers, user comments, and/or social media.

[0035] Furthermore, in one configuration, the query may be specified for a specific time frame. The time frame may be a specific time frame of the past, a time frame of the future, or a specific interval. For example, the query may only apply to events that occurred in the summer of 2012. As another example, the query may be generated to run in three months from the date of origin for the query.

[0036] In one configuration, after generating the query, open-source data is mined using the topic of interest and sub-topics. Sub-topics refer to topics related to the topic of interest. For example, for the query "I want to know the sentiment of wireless phone customers," the topic of interest may be a specific wireless provider and/or "wireless phone customers." Furthermore, in the present example, the sub-topics may be "iPhone customers" and "wireless customers." The open-source data refers to data that is generally available to the public. For example, data that is not deemed classified by a sovereign entity may be one source of open-source data. Open-source data may also include, but is not limited to, data available via a website, a data base, and/or a really simple syndication (RSS) feed.

[0037] After mining the open-source data using the topic of interest and sub-topics, the query parameters (e.g., search parameters) may be expanded and/or further processed. That is, during

the initial query generation, the user defines the scope of the query. Specifically, the user determines, to the best of their ability, the topics of interest and their sub-topics. After the query is executed, the user may find unintended search results. Some of the unintended search results may be false positives, while others may be relevant to the context of the query. Consequently, the user may add additional items to the topics of interest and/or sub-topics based on the unintended search results.

[0038] According to one aspect of the present disclosure, the query expansion and/or further processing may be performed in the query module 202. Alternatively, the query expansion and/or further processing may be performed in a module that is separate from the query module 202 (not shown).

[0039] In one configuration, a lexicon is applied to expand on the search parameters. The lexicon may be applied prior to the initial search and/or during the query expansion phase. The lexicon may also include misspellings and derivations of the topic of interest/sub-topics. The lexicon may be generated based on user input and/or may be generated based on automatic word association, such as synonym/antonym trees and lexicons of positive and/or negative modifiers.

[0040] As an example, for the query "Arab spring," the lexicon may be applied to expand the search to include relevant search terms such as, for example, "revolution," and/or "unrest." In this example, the lexicon may also apply misspellings, such as "spirng," to the search terms.

[0041] The expanded query is run on the data sources and the results are analyzed via a results module 204. The expanded query may be performed across meta-data for the web. Furthermore, in addition to, or separate from the meta-data search, in one configuration, the query is also performed on the selected data sources. If the results of the query are deemed satisfactory, data extractors are generated to monitor one or more of the specified data sources. That is, the results of the query are reviewed by a user, after reviewing the results, one or more of the data sources are selected based on the accuracy of the search results. The user may also select or exclude data sources that are false positives. False positives refer to data sources that are not relevant to the topic of interest but are still returned because the data source matches the query.

[0042] For example, the topic of interest for a query may be "Arab spring" and the results may include topics that are not related to the topic of interest (e.g., false positives). In this example, a search for a search of "Arab spring" may have generated false positive search results such as

"Arab spring water" or sources related to the spring season in the Middle East. Accordingly, sources related to these false positives may be excluded from further iterations of the search. Moreover, sources specifically related to the Arab spring uprisings may be selected by the user based on their accuracy.

[0043] Once the specific data sources have been selected, data extractors are deployed to monitor the specific data sources. In one configuration, when the results of the query do not yield results that are satisfactory to the user, the query is further refined until the desired results are obtained.

[0044] The data mining system 200 may include a data extractor module 206 for deploying data extractors. The data extractors may be referred to as extractors. Extractors refer to applications that monitor and extract data from user-specified locations or sources of interest (e.g., data source). That is, upon deployment, the extractors extract the data from a given source for analysis. Moreover, until terminated, the extractors are maintained at the data source to monitor for any changes to the data. The data changes are analyzed for a match to the key words of the query and the data is transmitted to a data analysis module when there is a match.

[0045] In some cases, the extractors may be bots or crawlers. The number of extractors deployed for a data source may be dynamic. In one configuration, the number of data extractors deployed for a data source increases when activity on the data source increases. For example, if extractors are deployed on a social media source to follow a current event, such as the elections, the number of extractors may increase during times when traffic for the election increases. In this example, the social media traffic may increase during flash points of a campaign, such as primaries, debates, and/or election night.

[0046] In one configuration, after a data source has been identified, the content of the data source is extracted based on a schedule. For example, a user may identify a blog as a data source. Moreover, the identified blog may have multiple authors, still, the user may specify to only extract posts by a first author, rather than all of the authors. The user may also set a schedule for the extractor to determine if there is new content from the first author. The schedule may be once a week, hour, month, minute, or other time. The extractor may extract the content to determine if there is new content. After determining that there is new content, the content will transmitted to the data mining system. In this configuration, prior to deploying the extractor, the

first author is identified as a topic of interest for the query. The extractor determines the identified topics of interest in external data sources such as social media, websites, proprietary data silos, and transmits the data to the data mining system for analysis.

[0047] Data is extracted when the extractor detects a relevant post. A relevant post refers to data on the data source that match the query and/or key words of the query. The extracted data may be catalogued and stored on a database in a data analysis module 208. The data may also be connected to terrestrial feature markers. The data that is stored in the database may be transmitted to a data analytics module for sentiment analysis, indexing, and/or pattern detection. Archived data is kept for each data source that is monitored.

[0048] In one configuration, sentiment analysis is performed on the extracted data. The sentiment analysis may language agnostic so that analytics may be performed in any native language, such as, for example, Arabic, Chinese, or Persian. The data analysis may also perform pattern detection, document classification, and sentiment analysis on both structured and unstructured datasets. Additionally, an analysis lexicon may be applied to the sentiment analysis.

[0049] Specifically, the data analysis module 208 may further analyze the data via linguistic patterns to determine the sentiment. That is, via the analysis lexicon, the data is processed using both a clausal and individual word level in English and/or the native language of the data. In one configuration, the data may be processed via successive passes. Numerical values may be assigned to denote sentiment. The sentiment may refer to whether the data is for or against a specific topic.

[0050] In one configuration the numerical values for the sentiment provide a specific range of numerical value to denote the strength of the sentiment. Positive sentiment may be given a value from 1 to X, 1 being the lowest value for a positive sentiment while X denoting the highest sentiment value. Additionally, negative sentiment may be given a value from -1 to -Y, -1 being the lowest value for a negative sentiment while -Y denoting the highest sentiment value.

[0051] The data mining system 200 may include a data visualization module 210 for visualizing data. The visualized data may be based on the data that is analyzed in the data analysis module 208. That is, in one configuration, the data is visualized to display sentiment

patterns across datasets. The visualization may be temporal and/or spatial. Furthermore, the visualized data may be exported so that a user may directly manipulate the results.

[0052] Additionally, data mining system 200 may include a customer communication module 212 for establishing a communication channel with customers and/or other users based on the analyzed data. As discussed above, in one example, if the data analysis reveals that a customer may be planning a trip to another country, the data mining system 200 may engage the customer to discuss cell phone data roaming plans and/or other services that may be desired by a customer that is traveling to another country.

[0053] Furthermore, the data mining system 200 may include a customer feedback module 214 for customers and/or users to provide feedback. In one configuration, the feedback is based on an open forum, such as a message board, for the customers to provide feedback to the system. The feedback is analyzed at the data analysis module 208 to determine customer sentiment. Furthermore, in addition to or separate from the open forum, the feedback may also be generated based on the communication channel established via the customer communication module 212.

[0054] In another configuration, the communication channel of the customer communication module 212 may be established after the extracted data has been visualized via the data visualization module 210. Furthermore, in one configuration, the feedback received via the customer feedback module 214 may be visualized at the data visualization module 210.

[0055] FIGURE 3 illustrates examples of data visualization according to aspects of the present disclosure. In one configuration, the data visualization is a sentiment heat map 308. That is, as shown in the sentiment heat map 308, the data may be visualized to show flash points for the extracted data. For example, if the topic of interest is "earthquakes," the heat map may show the areas in the world that have the most activity on the topic of interest. The heat map is not limited to a world map and may be visualized for any region.

[0056] In another configuration, the data visualization is a bar graph 302 for the sentiment over time. As previously discussed, the analyzed sentiment may be assigned a numerical value. Accordingly, the numerical value for the sentiment may be plotted over time and visualized as shown in the bar graph 302. For example, the topic of interest may be "alternative energy," and the visualization of the bar graph 302 may show a specific group's sentiment towards alternative

forms of energy over time. In another configuration, the data visualization is pie chart 304 and/or a plot graph 306.

[0057] The data visualization is not limited to the schemes shown in FIGURE 3, the data may be visualized via any desired scheme, such as, but not limited to Calendars, Box Plots, Bubble Charts and variations thereof, Bullet Charts, Chord Diagrams, Cartograms, Dendograms, Network Diagrams, Streamgraphs, Bar Graphs and variations thereof, Tree diagrams, maps, and variations thereof, Line graphs, Maps, Hierarchical Edge Bundling, Scatterplots and Scatterplot Matricies, Sankey diagram, Cluster maps and diagrams, Co-occurrence Matrices, Sunburst charts, Beziers, Word clouds, Heat maps, Timelines, Donuts and Pie charts, and/or Area charts. Moreover, the aforementioned visualizations may be based on dynamic factors, such as, but not limited to force directed movements, time elapse, pattern acceleration, and/or volume. More specifically, the data visualization may be specified to show relationships, variations, anomalies, trends, patterns, pinpoints, ranges, and/or actuals in the target data. It should be noted that the visualization options are configurable by the user and may vary based on the deployment domain and goal of the data mining system.

[0058] FIGURE 4 is a conceptual data flow diagram illustrating the data flow between different modules/means/components in an exemplary query module 400 according to an aspect of the present disclosure. In one configuration, the data flow between different modules/means/components of the query module 202 are similar to the data flow between different modules/means/components of the query module 400.

[0059] As shown in FIGURE 4, query module 400 includes a query setup module 402 for creating a query. The query setup module 402 may receive query elements via an input 406. The query elements may specify the topic of interest and subtopics of interest. In one configuration, the query elements are input by a user and/or automatically generated via a query module (not shown). As discussed above, the query elements may be a natural language query.

[0060] The query module 400 also includes a lexicon module 404 for applying lexicon elements to the query elements received at the query setup module 402. In one configuration, the lexicon elements are applied to the query elements at the query setup module 402. Alternatively, the query setup module 402 may transmit the query elements to the lexicon module 404 so that the lexicon elements may be applied to the query elements.

[0061] As discussed above, the lexicon elements may expand the query elements. In one configuration, for a query, the lexicon is applied to expand the search to include relevant search terms. The lexicon may also apply misspellings and derivations of the topic of interest/sub-topics. The lexicon may be generated based on user input and/or may be generated based on automatic word association, such as synonym/antonym trees and lexicons of positive and/or negative modifiers.

[0062] The query module 400 also includes a language translator 408 for translating the query elements received at the query setup module 402. The language translator 408 may translate the query elements and/or the results from English to another language, and vice versa. After applying the lexicon via the lexicon module 404 and translating the query elements (if necessary), the query setup module 402 transmits the query to the natural language processor 410. In one configuration, the natural language processor 410 converts the query elements to system-understood operations, such as Boolean operations.

[0063] The query module 400 also includes a search module 412 that distributes the query elements to search data sources. In one configuration, the data sources are defined by a user and are received at the search module 412 via a signal 416. Alternatively, the data sources may also be specified in the query elements received at the search module 412. Results of the search are transmitted to the results module 414. The results module 414 may sort the results and display the results to the user. In one configuration, the user may select the desired results to be stored in memory. The user may select the desired results based on the accuracy of the results and/or the information provided in the results. In one configuration, the results module 414 may be separate from the query module 400. According to an aspect of the present disclosure, the selected results are transmitted to a refinement module 418.

[0064] FIGURE 5 is a conceptual data flow diagram illustrating the data flow between different modules/means/components in an exemplary refinement module 500 according to an aspect of the present disclosure. In one configuration, the refinement module 500 may be included in the query module 400. Still, in the present configuration, the refinement module 500 is distinct from the query module 400. Nonetheless, in the present configuration, the refinement module 500 uses some of the elements of the query module 400.

[0065] As shown in FIGURE 5, the selected results from the results module 502 may be transmitted to the lexicon updating module 504. As previously discussed, at the results module 502, the user selects relevant results for processing (e.g., calibration). That is, the user may judge the results for accuracy based on the intent of the query. Based on the results selected from the query, the data mining system may refine the lexicons and the query elements.

[0066] More specifically, a search for a topic of interest may yield a plethora of results. Some results may be relevant to the search while others may be false positives. Accordingly, by understanding the data sources that are relevant to the user, the system may further refine to search terms so that a more focused search may be performed in future iterations.

[0067] Thus, the lexicon updating module 504 adjusts the lexicons based on the results selected by the user. The lexicon updating module 504 may transmit the results to the search module 506 to perform another search with the updated lexicons. Additionally, the lexicon module 508 may also be updated with the updated lexicons of the lexicon updating module 504. The lexicon module 508 may receive the updated lexicons from the search module 506 and/or the lexicon updating module 504. The refinement module 500 may run in a loop until the search results reach a desired results threshold. In one configuration, once the desired results have been received via the search module 506, the results module 502 transmits the results to a data analysis module 510.

[0068] FIGURE 6 is a conceptual data flow diagram illustrating the data flow between different modules/means/components in an exemplary data analysis module 600 according to an aspect of the present disclosure.

[0069] In one configuration, the data analysis module 600 includes a pre-processing module 602 that pre-processes the received data. The data may include results found by the extractors. That is, the data from the extractors may include data generated during a first pass of a search in addition to data from subsequent passes. More specifically, the data from subsequent searches may be refined and/or expanded based on the modification of the query. Moreover, the results obtained from the extractors may be time stamped, or given a unique identifier, so that the data of each pass is distinguishable from data of other passes.

[0070] In some cases, the data may be in various formats. For example, data extracted from a website may be different from data extracted from a database. Therefore, the preprocessing 602

may normalize the data to a desired format. After normalizing the data, the pre-processing module transmits the processed data to the data analysis module 604.

[0071] The data analysis module 604 may use various algorithms to analyze the normalized data. In one configuration, the data analysis module 604 includes a user generated algorithm module 606, a machine learning algorithm module 608, a lexicon based matching module 610, and a predictive module 612. In one configuration, the user generated algorithm module 606 executes an algorithm specified by the user. The machine learning algorithm module 608 may detect patterns in the data and the patterns may be applied to future data. The lexicon based matching module 610 finds key words and/or indexes in the body of the data. The predictive module 612 determines patterns in previous data and applies a probability for an occurrence of an event based on the present data. In one configuration, the data analysis module 604 includes all of the aforementioned modules or any combination thereof. Additionally, in another configuration, the user may configure the algorithm modules 606-612 that are used by the data analysis module 604.

[0072] After the data is analyzed, the data is transmitted to a pattern detecting module 614 to detect patterns in the data. In one configuration, the pattern detecting module 614 detects a spike in specific words or phrases. For example, the pattern detecting module 614 may detect a spike in the phrase "I love my iPhone 5."

[0073] The pattern detecting module 614 may also determine any causality for the spike. That is, the pattern detecting module 614 may determine what caused the spike to occur. For example, the pattern detecting module 614 may determine that the spike for the phrase "I love my iPhone 5" is based on a recent software update to the iPhone. The pattern detecting module 614 transmits the analyzed data and/or the detected patterns to the post-processing module 616. The post-processing module 616 may process the data to a format that is desired for an external system.

[0074] The data and/or detected patterns may be transmitted to a quality control module 618. In one configuration, the data may be transmitted directly from the data analysis module 604 to the quality control module 618. Likewise, the analyzed data from the data analysis module 604 may bypass either the pattern detecting module 614 or the post-processing module 616. The quality control module 618 may include a scoring module 620 for assessing the accuracy of the

results over time and as compared to a human analyst. Additionally, the quality control module 618 may include a logging module 622 for logging changes to the analysis of the data over time and/or per iteration. The logging may be similar to a software version control function. Furthermore, the quality control module 618 may include a labeling module 624 for labeling the data and the datasets for later reference. The labeling may include time stamping, pattern stamping, topic labeling, or any other desired type of label (e.g., identification).

[0075] The results from the quality control are transmitted to the user profile and used for future analysis by the data analysis module 604. The results of the quality control and/or the analyzed data may be stored in a storage module 626. The storage module may also store the patterns detected via the pattern detecting module 614. The results of the quality control and/or the analyzed data may also be displayed via a display module 628. The display module 628 may also display the patterns detected via the pattern detecting module 614. Furthermore, the display module may display a notification when the quality is below a quality threshold and/or when specific analyzed data is detected. Additionally, the analyzed data from the data analysis module 604 may be used to generate notifications and/or open communication channels with users based on various criteria.

[0076] FIGURE 7 is a conceptual data flow diagram illustrating the data flow between different modules/means/components in an exemplary customer communication module 700. The customer communication module may include modules to both communicate with a customer and receive feedback from a customer. In one configuration, the communication module may be a separate from the feedback module.

[0077] As shown in FIGURE 7, the customer communication module 700 may include a communication generation module 702. The communication generation module 702 may receive data from the analyzed results. Furthermore, the communication generation module 702 may receive information regarding a specific user from a user profile module 704. The user information may include information such as, the user's name, address, occupation, spoken languages, physical attributes, preferred communication method, and/or any other desired details. Additionally, the communication generation module 702 may be coupled to a translating module 706 to translate the received data based on the user profile. Furthermore, the communication generation module 702 may be coupled to a natural language processor 714 to process any

natural language data. That is, the natural language processor 714 may analyze the received natural language and determine semantic information from the received natural language.

[0078] Based on the data from the analyzed results, the user profile information, and the processing by the translator 706 and/or the natural language processor 714, the communication generation module 702 determines a strategy for communicating with a user. In one configuration, the strategy may be based on historical data. Historical data may include, but is not limited to, company records, sales records, and/or logged customer feedback. Once the strategy has been developed, the communication generation module 702 transmits the strategy to a communication execution module 708 for communicating with the user via one or more determined communication channels. The communication channels may include email, short message service (SMS), click-to-voice, interactive voice response (IVR), or any other desired form of communication. In one configuration, the user specifies their desired form of communication.

[0079] The customer communication module 700 may include a feedback module 710 for receiving a communication from a customer. The communication may be in response to the communication initiated via the communication execution module 708. Alternatively, the communication may be received via a portal, such as a webpage, twitter, message board, or any other communication channel. After receiving the communication from the user, the feedback module 710 transmits the data of the communication to the data analysis module 712 to analyze the data. The data is analyzed similar to the results of a query (e.g., data analysis module 510). That is, the data analysis module 712 may be the same module as the data analysis module 510 of FIGURE 5. In another configuration, the data analysis module 712 may be a different module as the data analysis module 510 of FIGURE 5; still, both modules would have similar functionality.

[0080] In one configuration, the data analysis module 712 may analyze the data for pattern detection and/or natural language processing. The results of the analyzed data may be reported to the user of the data mining system. Furthermore, the results may be transmitted to the communication generation module 702 for further refinement of the communication generation.

[0081] FIGURE 8 is a conceptual data flow diagram illustrating the data flow between different modules/means/components in an exemplary customer communication module 800.

The customer communication module 800 may include the feedback module 710 of FIGURE 7. In one configuration, the customer communication module 800 of FIGURE 8 is integrated with the customer communication module 700 of FIGURE 7.

[0082] As shown in FIGURE 8, the customer communication module 800 may include a feedback module 802 for receiving an input from a user via a communication channel. The communication channel may include, but is not limited to, SMS, email, web based communication, or a user-defined method. The feedback module 802 receives the communication, which may be received as a string of characters and processes the input to a desired format. The input is then transmitted to a parsing module 804 to be parsed based on lexicon sets and relationship maps, such as ontology sets, to classify the topic of the input.

[0083] After the string is parsed to determine the topic of the input, the parsed string is transmitted to a routing module 806 to be routed based on the identified topic. That is, the routing module 806 may look up the topic in a topic index so that the proper response is determined. After determining the proper index, the routing module 806 may transmit the topic index to the response module 808. The response module 808 determines the response from responses stored in a database 810. For example, if the string includes the words "appointment" and "schedule," the routing module 806 may determine that an index is "scheduling an appointment" and transmits the index to the response module 808. In this example, the response module 808 may then communicate with the user to schedule an appointment.

[0084] The responses in the database 810 may be updated in real time based on a machine learning module 812. For example, an index of "scheduling an appointment" may be determined based on a string including the words "appointment" and "schedule." Over time, the system may determine that communicating a response to schedule an appointment is not the appropriate response. That is, based on customer feedback, or other types of feedback, the system may determine that the proper response is to provide the user with the schedule of their appointments, or another type of response.

[0085] After determining the proper response, the response module 808 transmits the response to an outbound communication module 814 to communicate the response to the user via a desired form of communication, such as, but not limited to, email, SMS, or phone.

[0086] According to an aspect of the present disclosure, the data mining system may provide an ability for managers or high level user to subdivide the analysis into discrete, secure modules. A variety of permissions can be assigned to the analysts to control both the input and processed data. FIGURE 9 illustrates a flow diagram for the levels of security.

[0087] For example, as shown in FIGURE 9, a user designated as an administrator may have access to all of the data obtained via the system. The administrator may be referred to as a level 1 user. The administrator may provide specific permissions to level 2 users, such as a first manager (manager 1) and a second manager (manager 2). The managers may have the same access as the administrator or may have less access than the administrator. Furthermore, the levels of access for each manager may be the same as or different from each other. The managers may then control the level of access by each data analyst (Analysts A-D). The levels of access for each analysis may be the same as or different from each other.

[0088] As previously discussed, extractors may be deployed on target data sources. The data extracted by the extractors may be transmitted to a cloud-based infrastructure. The cloud-based infrastructure allows for on-demand scaling of resources and deployment of multiple extractors that may be processed in parallel.

[0089] The dynamic parallel computing structure may be used to process data without impeding speed. Specifically, the extractors and data analysis modules are dynamically configurable between sequential and parallel processing to improve efficiency.

[0090] FIGURE 10A illustrates a typical sequential data extraction system. As shown in FIGURE 10A data sources (e.g., data source 1 - data source n) are sequentially analyzed. More specifically, each record (e.g., record 1 - record n) of the data source is extracted one record at a time. The records to one record in a data source, such as a web page, database entry, etc. The speed of the extraction is limited by the speed of the processor(s). After extracting the record from a data source, the record is written to a data base.

[0091] Furthermore, as shown in FIGURE 10B, a sentiment analysis module may also be specified to process each extracted page. The sentiment analysis module may also be a data analysis module. As shown in FIGURE 10B, each extracted data source (e.g., data source 1 - data source n) is sequentially analyzed by the sentiment analysis module. The sentiment analysis

module may receive an input from the lexicon module. The records processed by the sentiment analysis module may be output from each sentiment analysis module for further processing.

[0092] Although sequential processing is a very straightforward approach to data-mining and analysis, it is limited by processing speed. For example, various sub-processes may be slower than others, leading to bottlenecks in the system. Moreover, page extraction speed (X) may be faster than the sentiment analysis processing speed (Y), thus leading to bottlenecks.

[0093] In one configuration, as shown in FIGURE 10C, scalable processing capabilities are specified by deploying multiple instances/sub-sentries to perform sentiment analysis processing in parallel. As shown in FIGURE 10C, multiple sentiment analysis modules may be deployed to analyze the records of the extracted data in parallel. In FIGURE 10C, the sentiment analysis module may receive an input from the lexicon module. The records processed by the sentiment analysis module may be output from each sentiment analysis module for further processing.

[0094] In one example, based on the present configuration, if the extraction speed is four times the sentiment analysis processing speed, 4 sub-sentries may be deployed to perform the sentiment analysis in parallel. Additional sub-sentries may be deployed for buffering needs. In another configuration, if the sentiment analysis processing speed is limited by a large lexicon, sub-sentries may be deployed to process a portion of the lexicon, in parallel. The data mining system of the aspects of the present disclosure monitors the speed of each sub-process, which is input into a controller that dynamically allocates parallel processing instances on-demand.

[0095] The data mining system described in the aspects of the present disclosure may obtain large amounts of data with varying levels of sensitivity. That is, some information may include customer sensitive data or data that should only be viewed by individuals have varying degrees of clearance. Thus, it may be desirable to provide a data security system that may be modified based on the procedures of a client of the data mining system.

[0096] As previously discussed, the data mining system described in the various aspects of the present disclosure may be used to mine and analyze various forms of data. Provided below are various examples of how the data mining system may be used by governments, individuals, corporations, and/or any desired user. Of course, the use of the data mining system of the present application is not limited to the discussed examples.

[0097] In one configuration, the data mining system may be used by a government and/or intelligence agency to monitor global hot spots. For example, governments and/or intelligence agencies may move through vast amounts and types of data, and in multiple languages to find patterns indicating the likelihood of domestic unrest, or the next terrorist attack. However, integrating and manually analyzing multiple data sources in real time is technically challenging, time intensive, and marred by human bias, oversight, and even fraud.

[0098] The data mining system described in aspects of the present disclosure finds, monitors, and summarizes the information needed to make the most informed decision in real time. Rather than relying on the manual sifting and analysis of intelligence, data mining system of the present application may use a combination of rules engines and artificial intelligence schemes to detect threat patterns within large datasets before problems reach a tipping point. Through iterations of searches and search results, the data mining system learns to filter data noise and refine queries to prioritize the most relevant results.

[0099] The data mining system described in aspects of the present disclosure may determine political sentiment by sampling mass media conversations in any language. Social media outlets, such as Twitter, may be monitored via the data extractors to identify user-defined events, shifts in traffic volume, and/or sentiment. The data mining system may report frequencies on topics, entities, and persons of interest, which may signal the development of a physical event posing a risk to public security.

[00100] After identifying a user-defined event, the data mining system notifies the appropriate personnel in real time, communicating the event type, location, and optimal response strategy via a communication channel, such as email or SMS.

[00101] In addition to monitoring mass online conversations and their physical impact, in one configuration, the data mining system may also monitor a specific individual. That is, the data mining system may analyze, verify, and cross check a person of interest's information, such as travel, financial, vital, and law enforcement records to identify patterns indicative of fraud, criminal activity, or other threatening behavior. The data mining system may then build a person of interest profile based on verifiable intelligence determined from all available institutional and open-source data feeds, including social media.

[00102] As an example, an intelligence agency may monitor sentiment of specific topics and/or groups during. In this example, the intelligence agency would have developed a query for monitoring sentiment of a topic/group. For example, the query may be "show me people upset with the government." In some cases, the query may be further refined to a specific group and/or a specific location.

[00103] After the query has been selected, the query may be expanded based on lexical and rule-set based techniques to search structured and unstructured datasets for the keywords of the query. Specifically, the expanded query may generate a topic of interest in addition to sub-topics. The expanded query may then be run on open-source data and closed-source data. After the first pass of the search, the user may expand the topic of interest based on unintended search results.

[00104] That is, after the first pass of the search, the use may add additional topics and/or sub-topics in addition to narrowing the search to specific sources. After the search has been narrowed to a desired results threshold, the data extractors are deployed to the selected data sources for monitoring of the data sources.

[00105] As an example, the user may have searched for "Arab Spring" as a topic of interest with "unrest" as sub-topics. In this example, a search of the topic of interest and other sub-topics may have generated unintended search results such as results related to social revolutions. Therefore, the user may determine to add "revolution" as sub-topics to a search. Additionally, other false positives may include topics that are not related to the topic of interest. For example, a search for a search of "Arab spring" and other sub-topics may have generated unintended search results such as "Arab spring water" or sources related to the spring season in the Middle East. Accordingly, sources related to these false positives may be excluded from further iterations of the search.

[00106] FIGURE 11 illustrates an example of data from a data source that is identified by a sentry. The sentry may identify a phrase from a message and/or image posted on a data source, such as a message board and/or a social media site. Specifically, as shown in FIGURE 11, the sentry may detect a post 1102 in data source, such as a message board. The post may include an image 1104 and text 1106. In the example data of FIGURE 11, the image 1104 is an image of protestors with a billboard. The post 1102 may have been identified based on key words in the

text 1106. For example, the key words may have been "strength" and "opposition." Once the post 1102 has been identified, the text 1106 may be analyzed by a data analysis module or a sentiment module. In one configuration, the sentiment is analyzed by the data analysis module 208 and/or a sentiment weight module 1108.

[00107] The sentiment analysis assigns weights (e.g., scores) to specific words or phrases that are extracted from a data source. As previously discussed, positives words are assigned a value from 1 to X and negative words are assigned a value from -1 to -Y. Positive words refer to words that indicate a positive sentiment, such as "good," "happy," etc. Negative words refer to words that indicate a negative sentiment, such as "hate," "angry," etc. The more positive or negative the word, the higher the value. For example, the positive word "good" may be assigned a value of 1 while the positive word "fantastic" may be assigned a value of 3. The value assignment may be set by the user or pre-defined based on a specific vernacular.

[00108] In the exemplary data shown in FIGURE 11, the key words in the text 1106 may be analyzed by the sentiment weight module 1108. The sentiment weight module 1108 may assign a sentiment weight to the words and/or phrases extracted from the text 1106. In this example, the words "opposition" and "strength" are both given a weight of -1. Thus, based on the analysis of the sentiment weight module 1108 a user and/or the data mining system may determine that the detected post 1102 carries a negative sentiment. The total sentiment weight for the extracted data may be the sum of all sentiment weight. In this example, the total sentiment weight is -2 (e.g., sum of "opposition" sentiment weight (-1) and "strength" sentiment weight (-1).

[00109] In one configuration, after determining a total sentiment weight for extracted data, the data analysis module, user, and/or data mining system may determine whether to proceed with a second pass for sentiment analysis.

[00110] Specifically, in one configuration, for the second pass, the data analysis module performs a more formal computational linguistic analysis to dive deeper into the textual opinions. The second pass may use a natural language processing toolsets on the native script to process and determine sentiment including lemmatization (root-finding), semantic feature analysis, statistical processing to discover patterns, etc. In one aspect of the disclosure, linguistic patterns are specified to populate the topic and modifier tables and create custom lexicons. After the first pass, the system can then reprocess the opinionated text string (OTS) with the improved

tables and increase accuracy. The opinionated text string refers to the set of words where the author holds the opinion.

[00111] In the exemplary data shown in FIGURE 11, during the second pass, the sign 1110 in the image 1104 may be analyzed to determine the sentiment of the text in the sign 1110. In this example, the key words of the sign, such as, "change," "constitutions," and "tyrants," may be given sentiment weights. In one configuration, after determining the total sentiment weight from the second pass, the data analysis module determines to extract the user info for the post for further analysis. In this configuration, the data analysis module determines that the user information should be extracted when the total sentiment weight is above a threshold. The thresholds may be set for positive and/or negative sentiment weights.

[00112] The user information may be extracted via an information extraction module 1112. The information extraction module 1112 may be part of the data analysis module, sentiment weight module 1108, and/or a distinct module. The information that is extracted may include the username, actual name, age, location, and/or any other information related to the user that posted the data. In one configuration the extracted information may be used for a new query to follow the user that posted the data.

[00113] It should be noted that although FIGURE 11 shows the data in English, the aspects of the present disclosure may be applied to data of any language.

[00114] In one configuration, after the sentiment of the data is analyzed, quality control is specified for the results of the sentiment. That is, the data and the sentiment weights may be transmitted to a quality control module. A user may review the data transmitted to the quality control module to determine whether the proper sentiment weights were specified for the extracted data. Specifically, the user may determine whether the sentiment analysis missed specific words, gave weights to false positives, and/or applied the wrong weights to specific words. Based on the user analysis, the sentiment analysis may be provided with a quality control value, such as a percentage.

[00115] Furthermore, based on the on the user analysis, the lexicon modules and/or sentiment analysis modules may be updated to correct missed words, false positives, incorrect analysis, and/or any other detected errors. After updating the lexicon modules and/or sentiment analysis modules, the sentiment analysis may be subsequently performed. The results of the subsequent

sentiment analysis may be further analyzed by a user. The iterations of the sentiment analysis may be performed until the quality control value is equal to or greater than a threshold.

[00116] As shown in FIGURE 11, in one configuration, the data mining system may be specified to determine political sentiment. Still, in another configuration, the data mining system of the present application may be used for customer service purposes and/or revenue enhancement services. In one configuration, a revenue enhancement service (RES) platform is an end-to-end big solution that generates actionable intelligence and executes individually targeted outreach strategies. The RES platform may use predictive analytics, natural language processing, and automated engagement capabilities, to increase revenue by improving sales, identifying emerging trends, and or streamlining customer interaction.

[00117] Consumers may generate large amounts of data that indicate how they spend, what they desire, and where and how they engage. In one configuration, the data mining system may continuously monitors the customer information from data sources, such as social media, web feeds, customer feedback, internal company databases, and proprietary data silos. In this configuration, the data mining system extracts attributes for each customer, such as financial profiles and retail history, to social influences and expressed interests. The RES continues to monitor and analyze the data for product sentiment, consumer patterns, and purchasing behaviors to build customer profiles and generate market intelligence in real-time. Using this intelligence, the customer of the data mining system may determine what are the most likely products and services that each customer is looking for as well as ways to engage with that particular customer.

[00118] In one configuration, based on the data retrieved via the data mining system, a company may improve product placement or determine design trends. Moreover, the customer may communicate with the company through their choice of interaction medium (e.g., SMS, email, voice, avatar chat, or a combination thereof) so that the customer may ask questions, resolve issues, and express satisfaction/dissatisfaction. Furthermore, the RES platform may determine customer profiles as well as customer sentiment so customer communications may be accurately routed for the appropriate response. That is, companies may improve outreach to engage with customers knowing who they are, how they feel and what they need.

[00119] FIGURE 12 illustrates an exemplary flow chart 1200 for determining user sentiment based on an aspect of the present disclosure. As shown in FIGURE 12, at block 1202 an individual may post data on a data source, such as a public forum or social media. In this example, the data is an indication of a phone user's sentiment for their phone service, specifically, "my phone service is terrible." At block 1204 an extractor that is monitoring the data source determines that the data post of block 1202 matches the query, therefore, the data extractor extracts the data and transmits the data to the data analysis module. At block 1206 a data analysis module analyzes the data to determine the sentiment of the post. At block 1208 the data analysis module outputs the sentiment word, such as "terrible," and the sentiment weight, such as "-1". Based on the analysis of the data analysis module, a customer communication module may determine an appropriate response. The response may be determined based on the determined sentiment.

[00120] In yet another configuration, the data mining system may be used to determine fraud, waste, and/or abuse of a system. In one configuration, the data mining system uses pattern detection based on historical data and correlating factors in datasets to determine potential fraud, waste, and/or abuse of a system. For example, the data mining system may be used in a health care or insurance system to analyze for fraud and/or abuse.

[00121] In one configuration, the data mining system is specified to analyze reported claims. The contents of the claim, such as user information, claim type, injury type, etc. are queried at data sources. The data sources may include a health provider data base, subscriber data base, and/or affiliate data base. The query is specified to determine whether the submitted claim has specific fraud characteristics. If it is determined that a claim has fraud characteristics, the data mining system may take appropriate actions, such as notifying an investigation, denying the claim, and/or flagging the claim for further monitoring. In one configuration, when a claim does not have fraud characteristics, the claim may still be flagged so that the individual that made the claim is monitored for future activity.

[00122] In one configuration, the data mining system is specified to query one or more data sources for various types of data, such as financial data, operational data, and/or human resources data. For example, one of the data sources may be an operations center. The query may be specified to extract data for further analysis. Thus, the query may be specified to for

updates and/or additions to all data in a data source or specific data in the data source. In one configuration, the data that matches the query is extracted and aggregated to a pre-defined format. That is, the data in the data source(s) may be in various proprietary formats. Therefore, it is desirable to aggregate the extracted data to a pre-defined format. Furthermore, after aggregating the extracted data, the data may be analyzed. The analysis may be performed via a data analysis module, such the data analysis module 604.

[00123] The analysis may use machine learning, a user generated system, lexicon based matching, natural language processing, and/or predictive processing to analyze the data. The analysis may detect patterns, find key works and/or indexes, determine a probability for an occurrence of an event, and/or perform other types of analysis. In one configuration, the analyzed data may be visualized. The visualization may be a sentiment heat map 308, bar graph 302, the pie chart 304, plot graph 306, and/or any other type of visualization.

[00124] Finally, in one configuration, based on the analyzed data, the data mining system may take appropriate actions, such as generating an actionable alert. As an, an actionable alert may be generated when a maximum allowed expense for a cost center is exceeds a threshold. For example, a threshold of a maximum expense of $1 million dollars per month is set, and the actual expense data is $1.2 million dollars. In this example, the cost center Manager will be notified that the threshold has been passed. The Manager may then take appropriate actions based on the alert.

[00125] According to an aspect of the present disclosure, the data mining system is specified to improve a customer's travel experience. For example, a query may be generated to query one or more data sources for information related to traveling. The information may be travel information prior to traveling, during traveling, and/or after traveling. In one configuration, the query is related to itinerary changes, local deals, expenses accrued in relation to traveling, corporate travel policy, and/or other travel related information. The corporate travel policy may be information for budget caps, preferred hotels, preferred airlines, and/or other information related to corporate travel.

[00126] The data source(s) may include a traveler's calendar, a database of deals, a traveler's rewards account, enterprise data, credit card information, the traveler's location, and/or any other

data source that includes travel information. The rewards account may be an account such as a frequent flyer account. In this configuration, the data mining system generates an actionable alert when new data and/or a change in data match the query.

[00127] As an example, once a traveler has booked a trip (e.g., hotel and/or flight) to a destination, a query is generated to monitor the one or more data sources. In this example, if there is a change to an itinerary, an actionable alert may be generated for the traveler. The change in itinerary may be detected based on a change to the traveler's calendar, a change in a rewards account, a change in a credit card transaction, and/or a change any other data source that includes travel information.

[00128] As another example, prior to embarking on the planned travel, the query may determine local deals based on the traveler's destination. The local deals may be determined from one or more data sources that include local deals. Furthermore, an actionable alert may be generated for the traveler if a local deal is found. As another example, the local deals may be determined while the traveler is at a specific destination. In this example, the local deals may be determined using a data source that includes the traveler's location as well as a data source that includes local deals.

[00129] In yet another example, after travel has been booked, a traveler may be notified that their booked hotel, airline, rental car, and/or other travel related item is no longer qualified by a corporate travel policy. The notification may also indicate that travel expenses accrued prior and/or during travel have exceeded the corporate travel limit. Furthermore, in one example, the query may search expenses from a credit card data source and/or other financial data source to determine travel related expenses. The data mining system may then generate and submit an expense report based on the matched query.

[00130] In one configuration, the data mining system is configured to query one or more data sources for information regarding bullying. For example, the query may search for specific words, phrases, images, and/or videos related to bullying in a bullying report database and/or social media. The bullying reports may be submitted by victims and/or witnesses. The reports may include a description, audio, and/or video of an incident.

[00131] In this configuration, an actionable alert is generated when a query identifies a new and/or updated bullying incident. The actionable alert may be transmitted to authorities, such as school officials, parents, and/or police.

[00132] In one configuration, the data mining system is configured to query one or more data sources for a user defined topic of interest. The data source(s) may include surveys, feedback forms, user comments, and/or any type of data. For example, the data source may be a survey data source and/or social media. The query may be specified to search for updates and/or additions to all data in a data source or specific data in the data source. After extracting the data, the data may be analyzed. The analysis may be performed via a data analysis module, such the data analysis module 604.

[00133] In one configuration, the analysis is specified to determine public sentiment. Of course, aspects of the present disclosure are not limited to determining public sentiment and the analysis may be performed to determine any metric. The analysis may use machine learning, a user generated system, lexicon based matching, natural language processing, and/or predictive processing to analyze the data. The analysis may detect patterns, find key works and/or indexes, determine a probability for an occurrence of an event, and/or perform other types of analysis. The results of the analysis may be communicated to a user for further processing.

[00134] In one configuration, the data mining system is configured to query one or more data sources for financial transactions. The data source(s) may include a bank account and/or a credit card account. The query may be specified to identify updates and/or additions to the financial information. The financial information may be in different formats. For example, one format may be transactional data, such as a posted transaction. Another format may be non-transactional data or user provided data, such as an image of a receipt or check. A match to the query may result in an actionable alert to a customer. Additionally, a match to the query may result in an expense report being generated for the financial transaction.

[00135] As an example, the user may set a query to determine when financial transactions at a coffee shop exceed a pre-defined budget. The query may then monitor one or more of the user's financial data sources. When a transaction at a coffee shop is posted, the query receives a match and increments a variable with the amount of transaction. Accordingly, if the variable is greater than the pre-defined budget, an alert may be sent to the user.

[00136] As an example, the user may set a query to determine when a new image is added to a financial data source. The query may then monitor one or more of the user's financial data sources for a new image. When an image, such as an image of a check or an image of a receipt is posted, the query receives a match. In this example, data from the image is extracted and the amount may be incremented to a ledger and/or an expense report may be generated based on the extracted information.

[00137] In one configuration, the data mining system is configured to monitor one or more data sources for a user's financial transactions. Spending patterns may be determined from the financial transactions via a data analysis module, such the data analysis module 604. Additionally, the data mining system is configured to monitor one or more data sources for deals, such as coupons, deals, rewards, and/or other incentives for existing and/or potential customers.

[00138] In one example, the data mining system may determine a deal based on an identified spending pattern. For example, based on a query for spending patterns, the data mining system identifies that a user has increased spending at a specific coffee merchant. Based on the identified coffee spending pattern, the data mining system may query the deal data source(s) to identify deals related to the coffee spending pattern. The query may identify existing deals and/or the query may continuously monitor the data source to determine when a deal is identified. Furthermore, once a deal is identified, an actionable alert may be generated for the user.

[00139] In another example, the query may identify a new deal from a merchant. Furthermore, after determining the new deal, the query may then monitor the spending patterns of users to identify potential targets for the deal. Once a target (e.g., user) for the deal is identified, an actionable alert may be generated for the user.

[00140] In yet another example, the query may identify a user's spending patterns. Furthermore, based on the spending patterns, a user may earn points to be used for deals, trips, and/or merchandise. The points and/or spending patterns may be updated when new financial transactions are identified by the query.

[00141] In one configuration, the data mining system is configured to query one or more data sources for user information as well as other financial information. The financial information may include public information and/or user received information, such as mortgage rates, interest

rates, housing prices, location data, a user's financial data (e.g., credit score, account balances, income, etc.). The user's financial data may be information received via application forms, such as a loan or credit application, and/or tax forms. The user information may also include the user's location (e.g., current location, business location, and/or residence). In response to identifying data via the query, an actionable alert may be generated to a user. The alert may suggest a vendor/service and/or a path to a goal. Vendors/services may include loan vendors, credit vendors, and/or other vendors of financial related services.

[00142] For example, the alert may suggest a low interest credit card based on the user's credit score and account balances. As another example, the alert may suggest a service to repair a credit score based on the user's credit score. In yet another example, a path to a goal may include suggestions for how to save money in view of current spending patterns to reach a user-defined goal or a system suggested goal.

[00143] In one configuration, the data mining system is configured to query one or more data sources for user information as well as other health related information. The health related information may include locations for health care providers, a user's insurance information, and/or a user's health records. The user information may include the user's location (e.g., current location, business location, and/or residence). In response to identifying data via the query, an actionable alert may be generated to a user.

[00144] The alert may suggest a nearby health care provider that is approved by insurance. The alert may also suggest updated insurance information. Furthermore, the alert may include an application for enrollment in health plans. In one configuration, the information in the application is pre-populated with user information obtain from one or more of the data sources.

[00145] In one configuration, the data mining system is configured to query one or more data sources for customer service issues and/or a user defined topic of interest. The data source may be one or more data sources that include knowledge centers, FAQs, user comments, or any type of data. The query may be specified to search for updates and/or additions to all data in a data source or specific data in the data source. After extracting the data, the data may be analyzed for sentiment, trends, or other analysis. The analysis may be performed via a data analysis module, such the data analysis module 604.

[00146] In one configuration, the data mining system is configured to query one or more data sources for data that is to be processed for summarization (e.g., abstraction). For example, the data may include documents and/or images. The data may be unstructured (e.g., not in machine readable format). In this configuration, when the data has been identified, the data is converted to a machine readable format and summarized. For example, optical character recognition may be applied to convert the data into structured data. Furthermore, the summarized data may be available for further analysis. The summarized data may be referred to as abstracted data.

[00147] As an example, the one or more data sources may include lease information. In this example, when an update to an existing lease or a new lease is provided, the query extracts the lease and the information is converted to a machine readable format. Furthermore, after the conversion, the lease may be summarized. Additionally, the summary may then be available for further queries or analysis.

[00148] In another example, the one or more data sources may include legal documents, such as a court decisions. In this example, when a new court decision has been entered, the query extracts the court decision and the information is converted to a machine readable format. Furthermore, after the conversion, the court decision may be summarized. Additionally, the summary may then be available for further queries or analysis.

[00149] In one configuration, the data mining system is configured to query one or more data sources that include a user's location, device information, as well as a user's contact preferences. The information may include a user/device GPS location, wireless device information, a radio access technology (RAT) the device is connected to (e.g., connected to WiFi or LTE), a cell tower the device is connected to, a SIM card used by the device, and/or other communication related information. In this configuration, the information obtained from the data sources may be used for virtual contact card as well as contact rules based on a user's preference. That is, when an update or new information is provided for a first user's location, device information, and/or the first user's contact preferences, an alert may be generated to one or more second users. The alert may inform the second user regarding the first user's contact preferences. The alert may be transmitted to the second user's device, such that the second user is not identified that the first user's contact information has been updated. The alert may also be sent to one or more of the first user's devices to update outgoing communication rules.

[00150] In one example, a query may be generated to monitor what type of RAT a first user's device is connected to. Furthermore, a data source may receive an update indicating that the first user's device is only connected to WiFi. Based on the update, an alert is sent to one or more second users. The alert may indicate that until further notice, the first user should only be contacted via voice over IP (VoIP) or other Internet based communications. Additionally or alternatively, in this example, when the query determines that the first user is only connected to WiFi, an alert may be generated for the first user's device so that the first user's device may only perform outgoing communications via VoIP or other Internet based communications.

[00151] In another example, a query may be generated to monitor a user's calendar. In this example, when a new calendar entry or updated calendar entry is determined from the query, the user's contact preference may be alerted to the user or other users. For example, a first user may update their calendar to include a business meeting during a specific data. Based on the updated calendar, an alert is transmitted to one or more second users to update the first user's contact preference. For example, the first user may only desire to receive SMS messages during the meeting. Thus, if a second user attempts to contact the first user during the scheduled meeting, the second user may only be able to contact the first user using SMS based on the updated contact preference.

[00152] In one configuration, the data mining system is configured to query data sources for health related information, secure messaging, and/or scheduling information. For example, the information may include a physician's schedule, such that an alert is generated when a new or updated schedule is provided to the data source. As another, in a healthcare environment, the queried data queried may include contact information, health records, and/or a physician's schedule. An alert may be generated, when a new schedule or an update to a physician's schedule is received in the database. Alerts may also be generated upon the entry of a new communication in the database.

[00153] As previously discussed, according to aspects of the present disclosure the search terms of the query may be expanded. In the above mentioned examples, the search terms may be expanded if desired. Additionally, according to aspects of the present disclosure, in some cases, one or more data sources from the multiple data sources are selected when results of the query are greater than or equal to an accuracy thresholds. In the above mentioned examples, the

selection of one or more data sources based on the accuracy threshold may be performed as desired. Still, the above mentioned examples are not limited to expanding the query and/or selecting one or more data based on the accuracy threshold.

[00154] Those of skill would further appreciate that the various illustrative logical blocks, modules, circuits, and algorithm steps described in connection with the disclosure herein may be implemented as electronic hardware, computer software, or combinations of both. To clearly illustrate this interchangeability of hardware and software, various illustrative components, blocks, modules, circuits, and steps have been described above generally in terms of their functionality. Whether such functionality is implemented as hardware or software depends upon the particular application and design constraints imposed on the overall system. Skilled artisans may implement the described functionality in varying ways for each particular application, but such implementation decisions should not be interpreted as causing a departure from the scope of the present disclosure.

[00155] The various illustrative logical blocks, modules, and circuits described in connection with the disclosure herein may be implemented or performed with a general-purpose processor, a digital signal processor (DSP), an application specific integrated circuit (ASIC), a field programmable gate array (FPGA) or other programmable logic device, discrete gate or transistor logic, discrete hardware components, or any combination thereof designed to perform the functions described herein. A general-purpose processor may be a microprocessor, but in the alternative, the processor may be any conventional processor, controller, microcontroller, or state machine. A processor may also be implemented as a combination of computing devices, e.g., a combination of a DSP and a microprocessor, a plurality of microprocessors, one or more microprocessors in conjunction with a DSP core, or any other such configuration.

[00156] The steps of a method or algorithm described in connection with the disclosure herein may be embodied directly in hardware, in a software module executed by a processor, or in a combination of the two. A software module may reside in RAM memory, flash memory, ROM memory, EPROM memory, EEPROM memory, registers, hard disk, a removable disk, a CD-ROM, or any other form of storage medium known in the art. An exemplary storage medium is coupled to the processor such that the processor can read information from, and write information to, the storage medium. In the alternative, the storage medium may be integral to

the processor. The processor and the storage medium may reside in an ASIC. The ASIC may reside in a user terminal. In the alternative, the processor and the storage medium may reside as discrete components in a user terminal.

[00157] In one or more exemplary designs, the functions described may be implemented in hardware, software, firmware, or any combination thereof. If implemented in software, the functions may be stored on or transmitted over as one or more instructions or code on a computer-readable medium. Computer-readable media includes both computer storage media and communication media including any medium that facilitates transfer of a computer program from one place to another. A storage media may be any available media that can be accessed by a general purpose or special purpose computer. By way of example, and not limitation, such computer-readable media can comprise RAM, ROM, EEPROM, CD-ROM or other optical disk storage, magnetic disk storage or other magnetic storage devices, or any other medium that can be used to carry or store desired program code means in the form of instructions or data structures and that can be accessed by a general-purpose or special-purpose computer, or a general-purpose or special-purpose processor. Also, any connection is properly termed a computer-readable medium. For example, if the software is transmitted from a website, server, or other remote source using a coaxial cable, fiber optic cable, twisted pair, digital subscriber line (DSL), or wireless technologies such as infrared, radio, and microwave, then the coaxial cable, fiber optic cable, twisted pair, DSL, or wireless technologies such as infrared, radio, and microwave are included in the definition of medium. Disk and disc, as used herein, includes compact disc (CD), laser disc, optical disc, digital versatile disc (DVD), floppy disk and blu-ray disc where disks usually reproduce data magnetically, while discs reproduce data optically with lasers. Combinations of the above should also be included within the scope of computer-readable media.

[00158] The previous description of the disclosure is provided to enable any person skilled in the art to make or use the disclosure. Various modifications to the disclosure will be readily apparent to those skilled in the art, and the generic principles defined herein may be applied to other variations without departing from the spirit or scope of the disclosure. Thus, the disclosure is not intended to be limited to the examples and designs described herein but is to be accorded the widest scope consistent with the principles and novel features disclosed herein.

CLAIMS

WHAT IS CLAIMED IS:

1. A method of analyzing data, comprising:

generating a query based at least in part on a topic of interest;

executing the query on a plurality of data sources; and

monitoring at least one specific data source selected from the plurality of data sources for matches to the query.

ABSTRACT

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is performed to monitor for matches to the query.

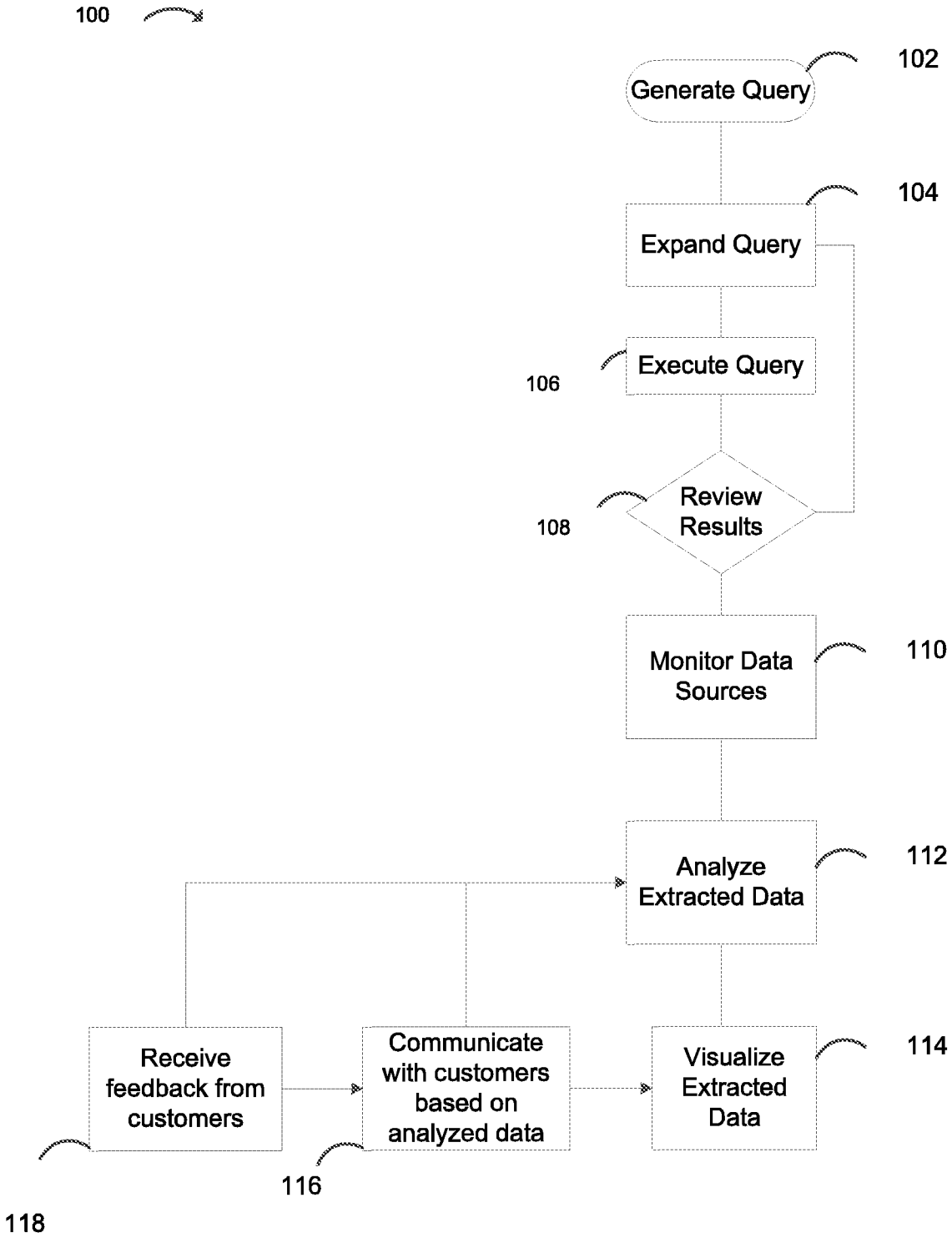

100
Generate Query
102
Expand Query
104
Execute Query
106
Review Results
108
Monitor Data Sources
110
Analyze Extracted Data
112
Receive feedback from customers
Communicate with customers based on analyzed data
116
Visualize Extracted Data
114
118

FIG. 1

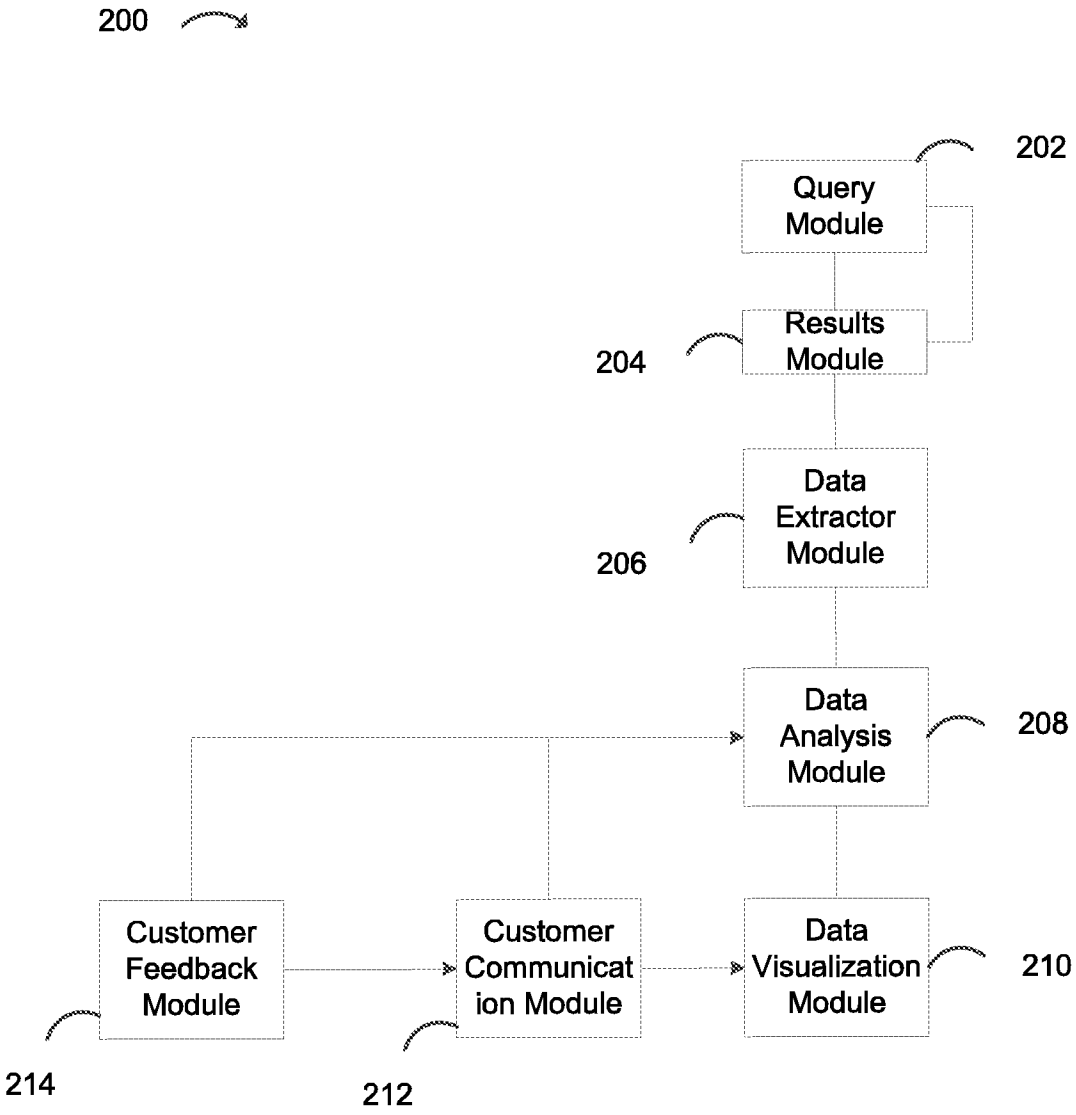

200
202
Query Module
Results Module
204
Data Extractor Module
206
Data Analysis Module
208
Customer Feedback Module
214
Customer Communicat ion Module
212
Data Visualization Module
210

FIG. 2

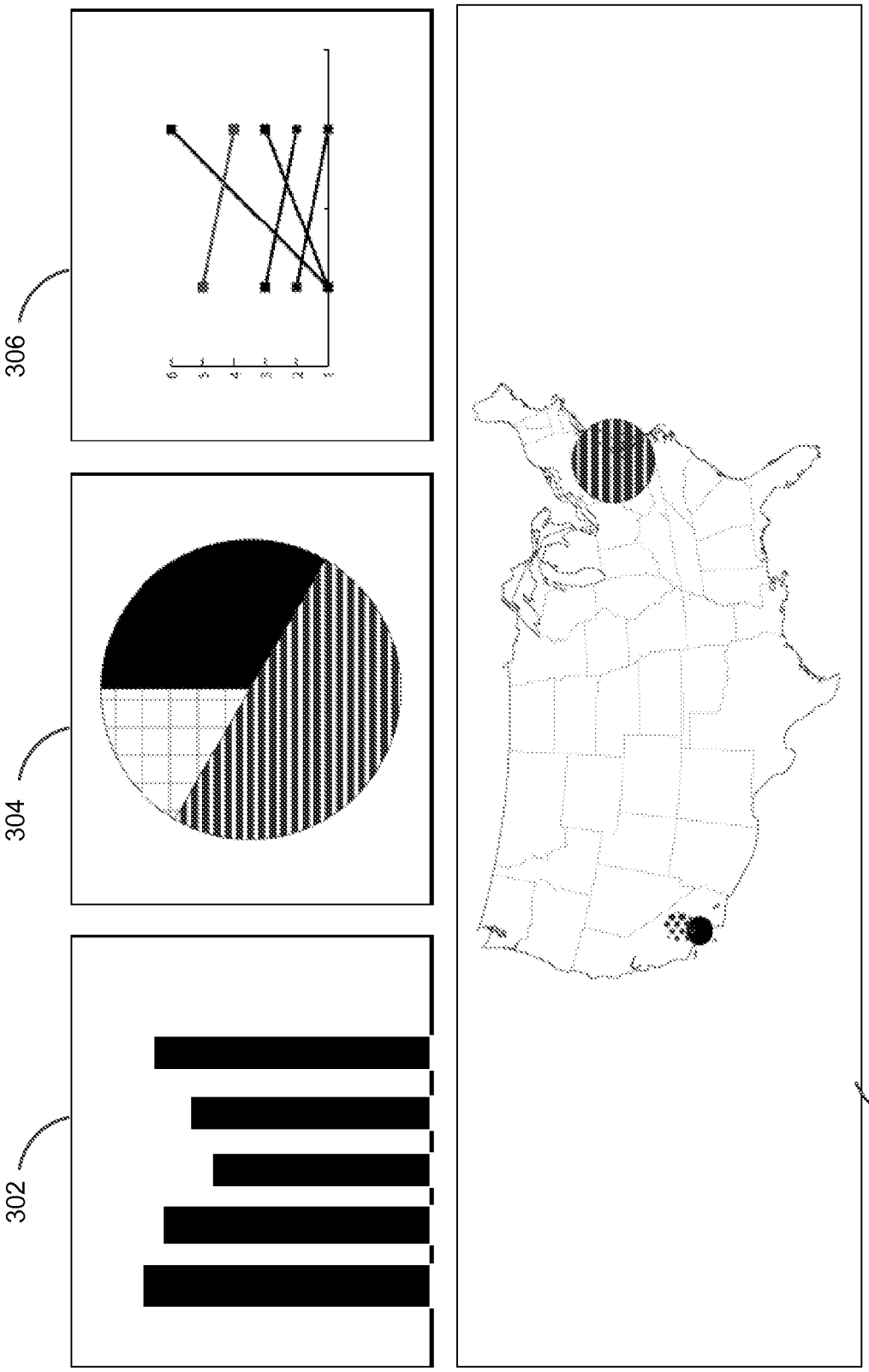


FIG. 3

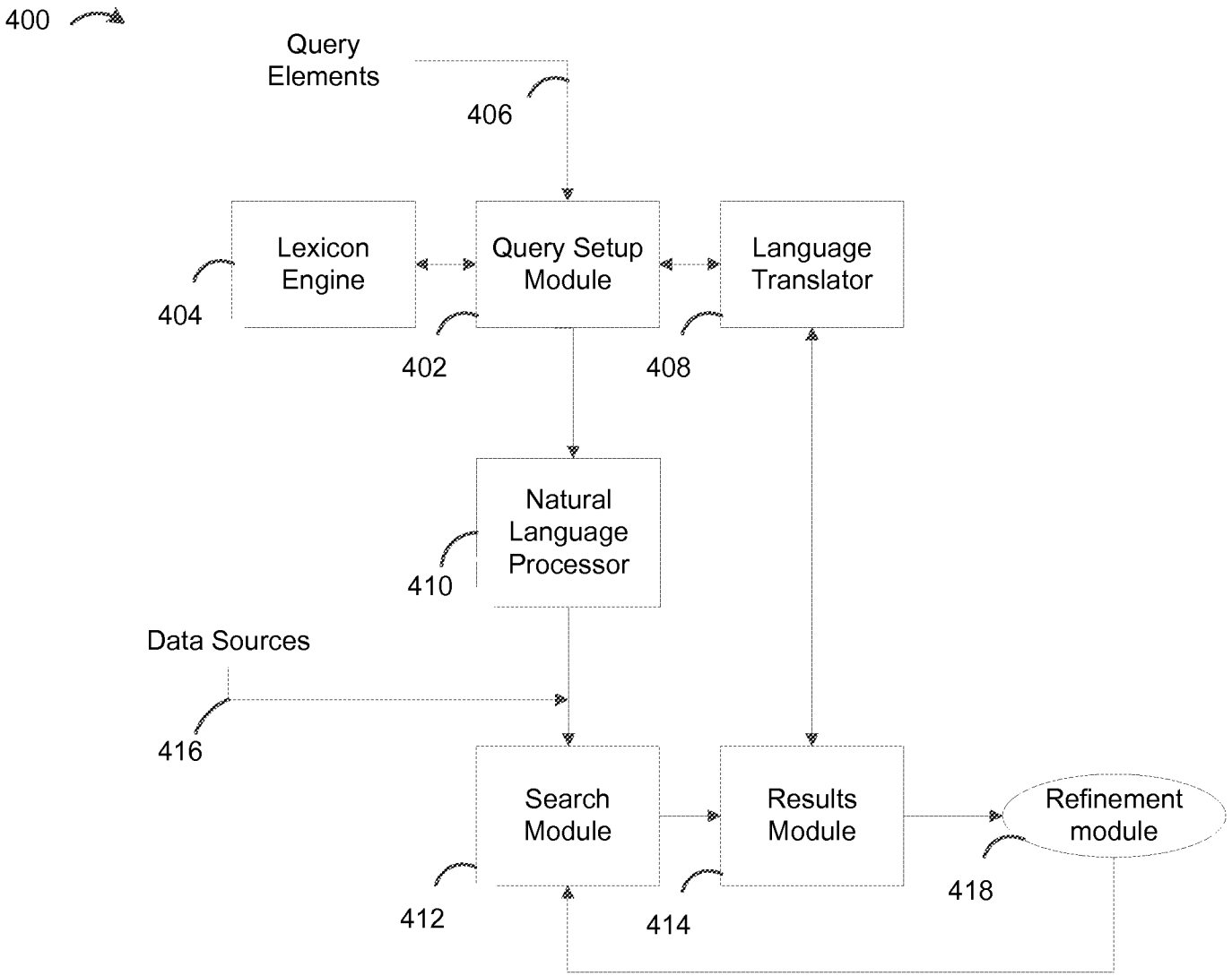

400
Query Elements
406
Lexicon Engine
404
Query Setup Module
402
Language Translator
408
Natural Language Processor
410
Data Sources
416
Search Module
412
Results Module
414
Refinement module
418

FIG. 4

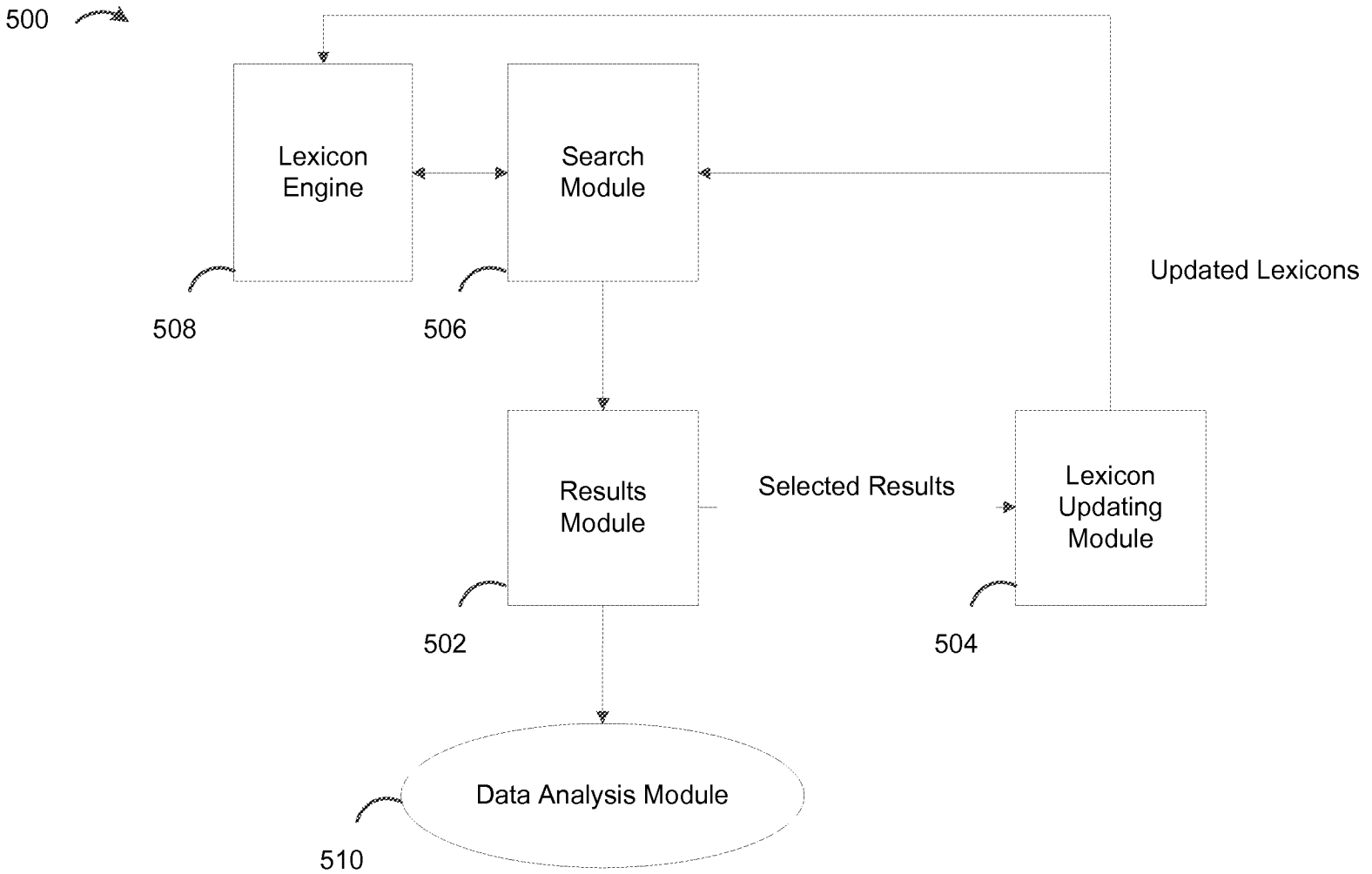

500
Lexicon Engine
Search Module
Updated Lexicons
508
506
Results Module
Selected Results
Lexicon Updating Module
502
504
Data Analysis Module
510

FIG. 5

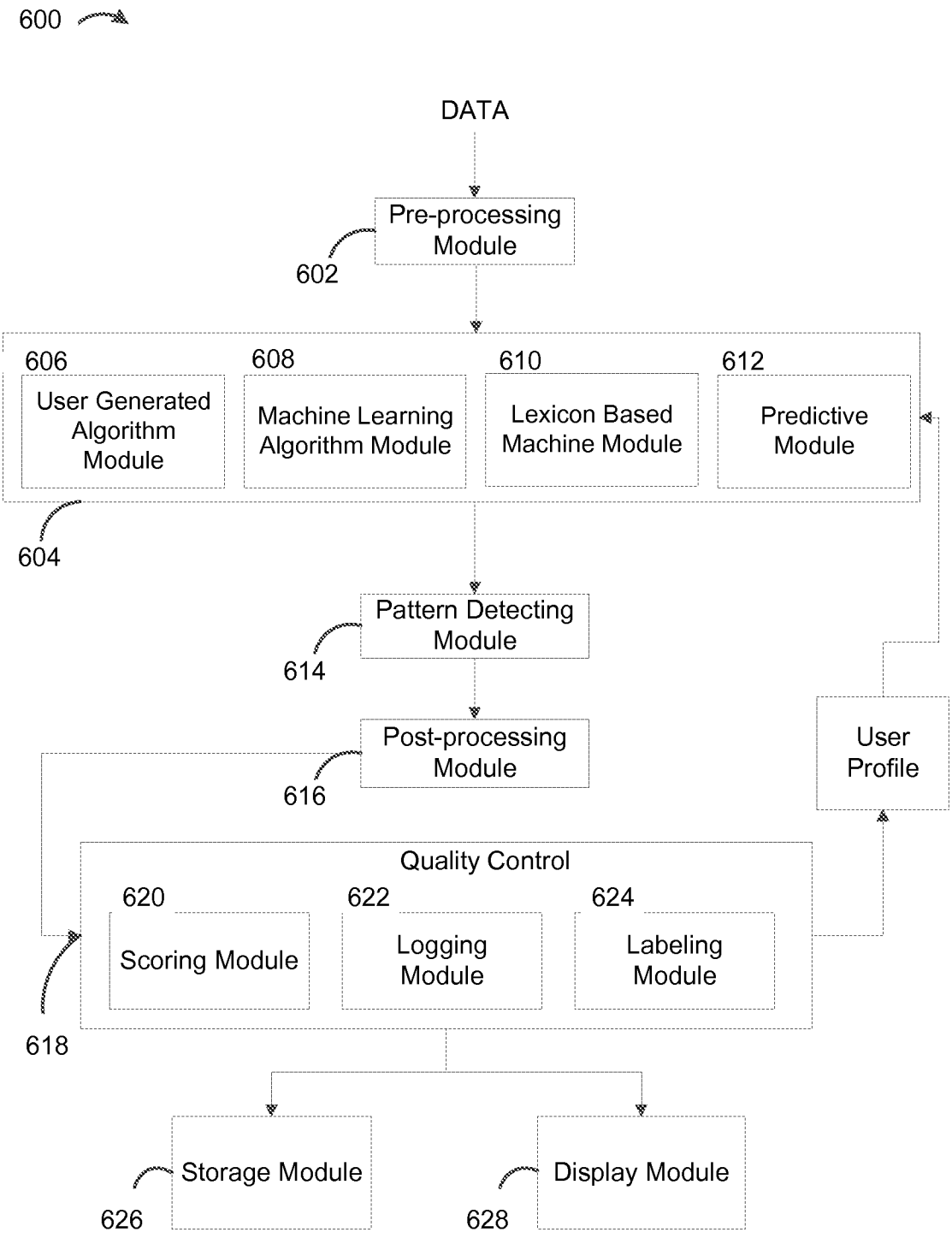

600
DATA
Pre-processing Module
602
606
User Generated Algorithm Module
608
Machine Learning Algorithm Module
610
Lexicon Based Machine Module
612
Predictive Module
604
Pattern Detecting Module
614
Post-processing Module
616
User Profile
Quality Control
620
Scoring Module
622
Logging Module
624
Labeling Module
618
Storage Module
626
Display Module
628

FIG. 6

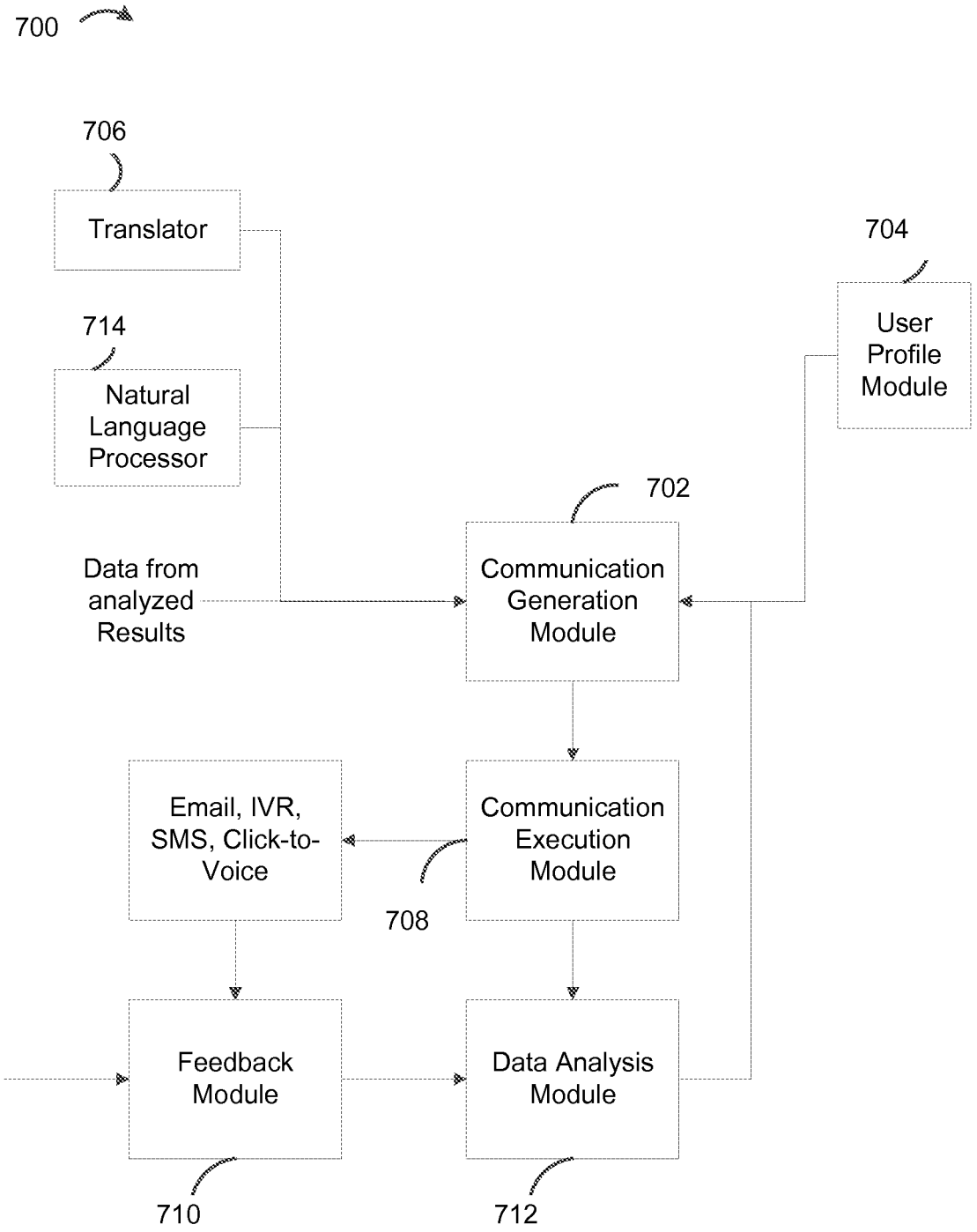

700
706
Translator
704
User Profile Module
714
Natural Language Processor
702
Data from analyzed Results
Communication Generation Module
Email, IVR, SMS, Click-to-Voice
Communication Execution Module
708
Feedback Module
Data Analysis Module
710
712

FIG. 7

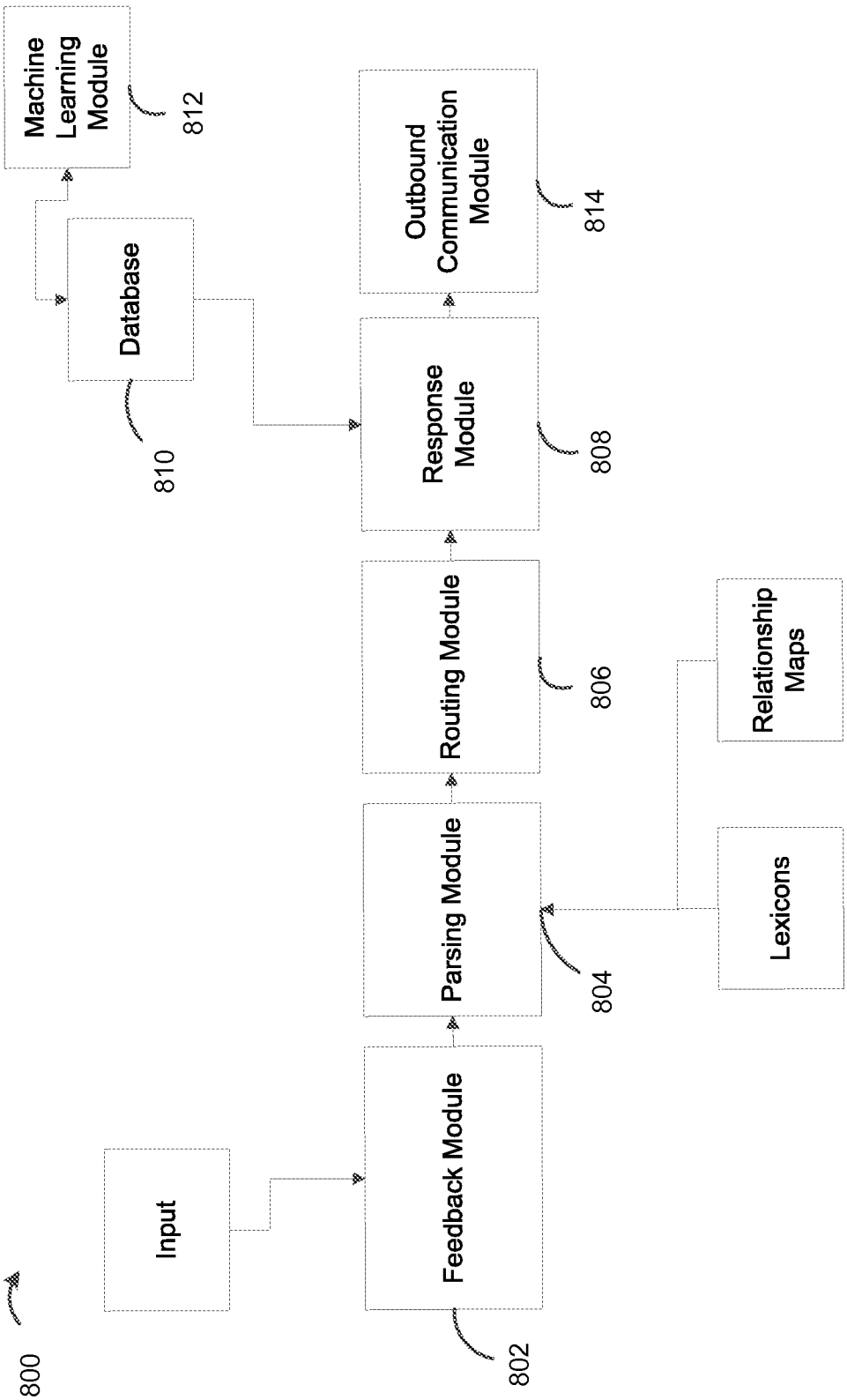


FIG. 8

IPR2025-00623
UIPATH EXHIBIT 1002

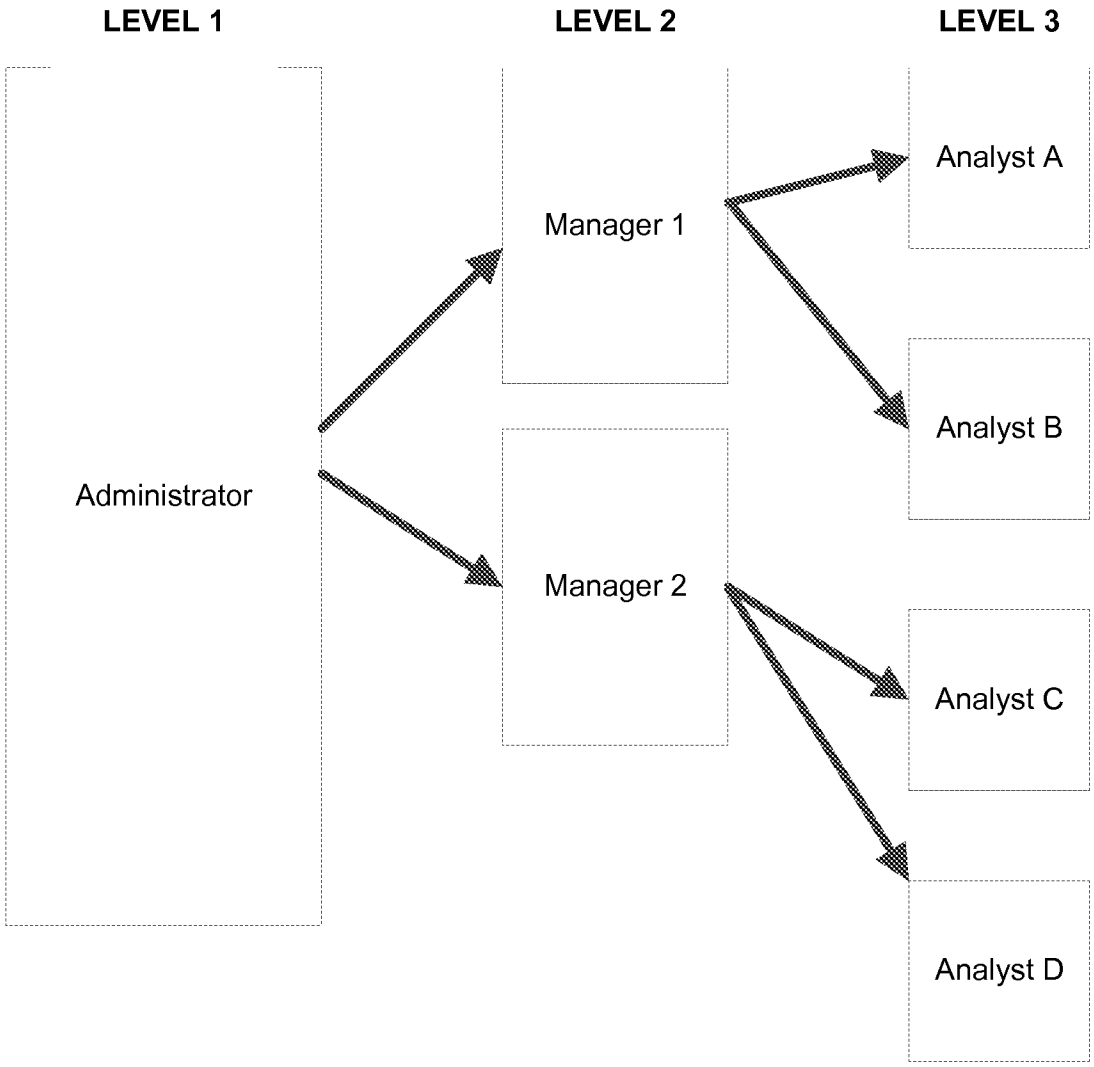
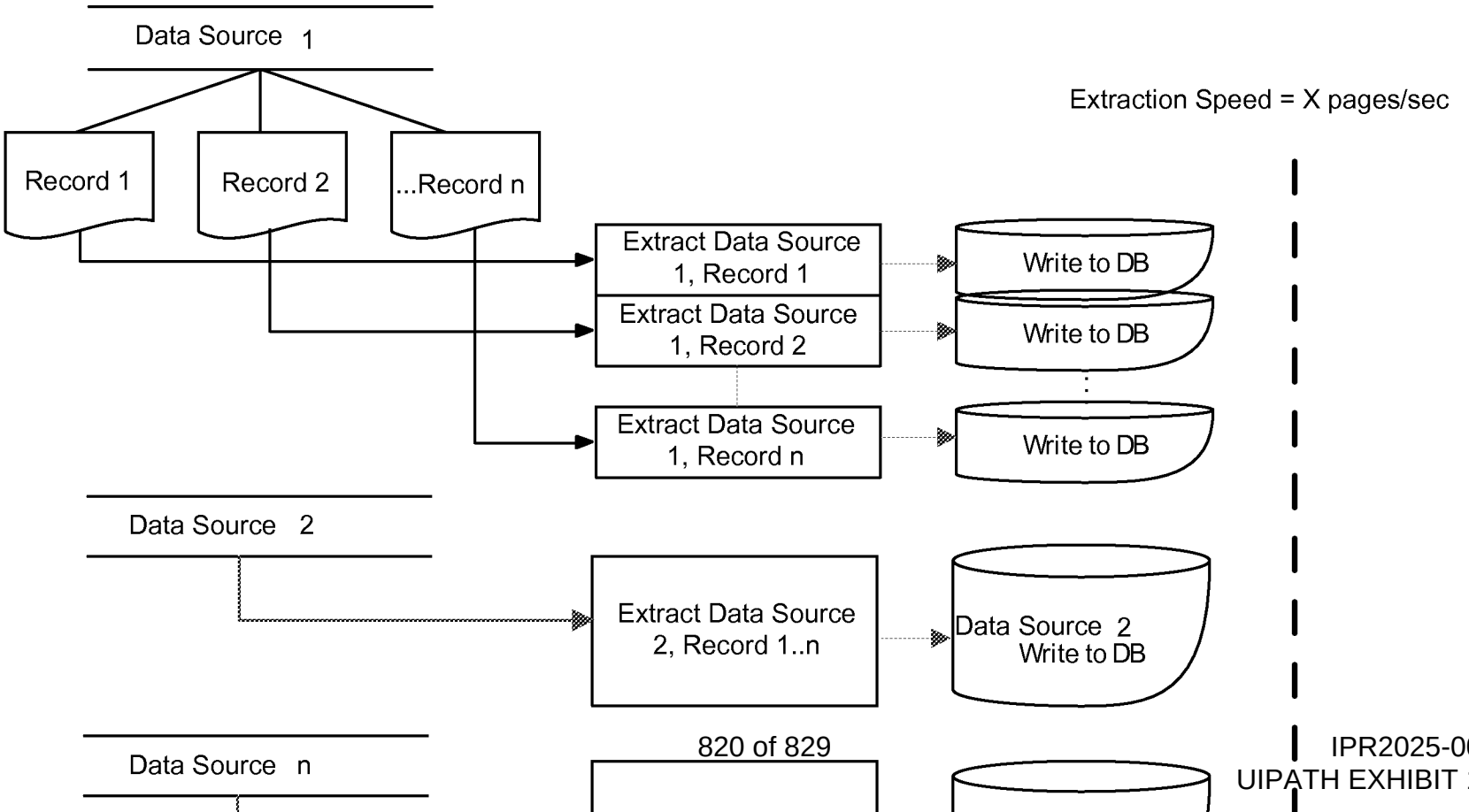

LEVEL 1
LEVEL 2
LEVEL 3
Administrator
Manager 1
Manager 2
Analyst A
Analyst B
Analyst C
Analyst D

FIG. 9



IPR2025-00623
UIPATH EXHIBIT 1002

IPR2025-00623
UIPATH EXHIBIT 1002

IPR2025-00623
UiPATH EXHIBIT 1002

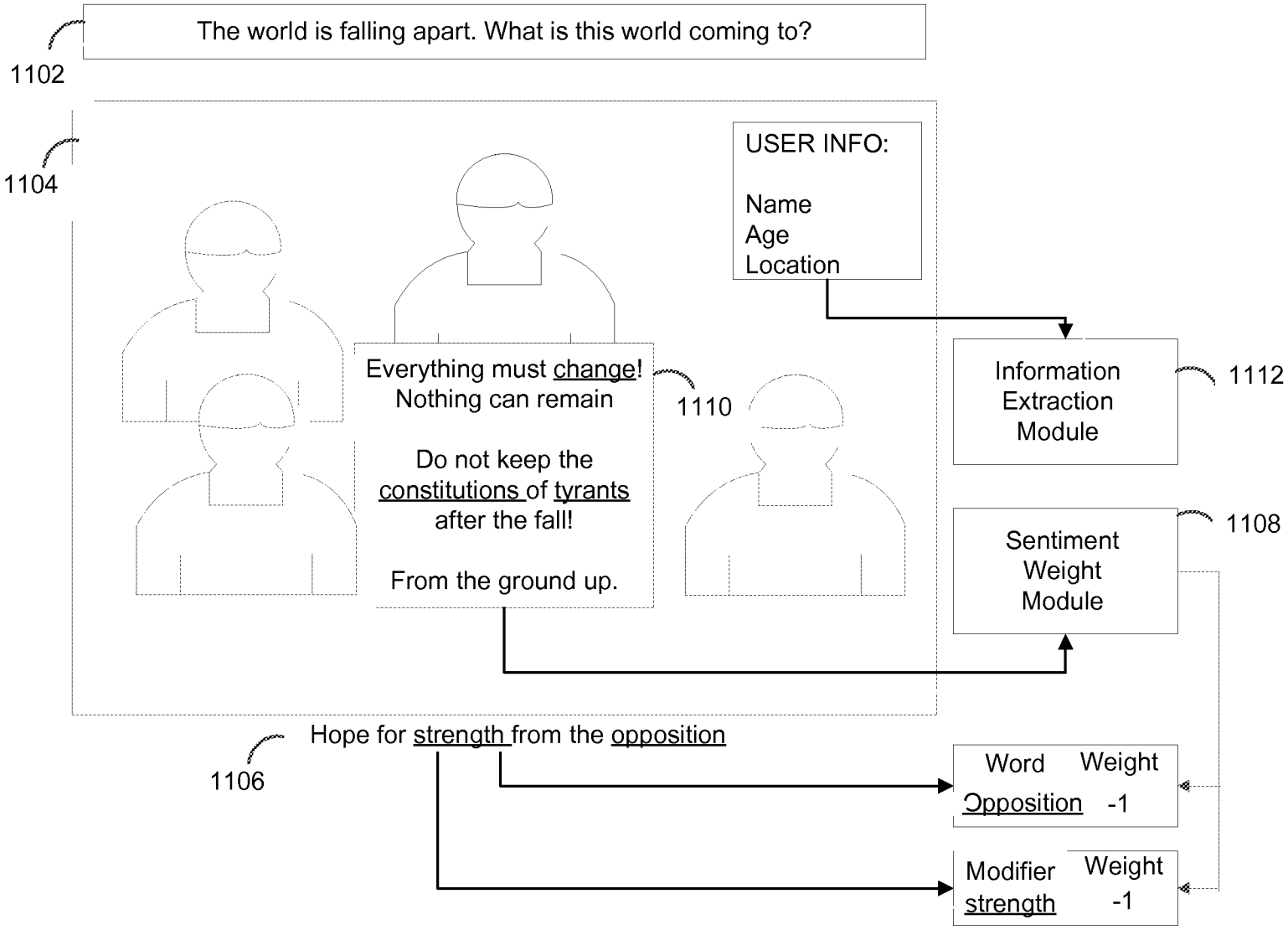

The world is falling apart. What is this world coming to?
1102
1104
USER INFO:
Name
Age
Location
Everything must change!
Nothing can remain
Do not keep the
constitutions of tyrants
after the fall!
From the ground up.
1110
Information
Extraction
Module
1112
Sentiment
Weight
Module
1108
Hope for strength from the opposition
1106
Word
Weight
Opposition
-1
Modifier
Weight
strength
-1

FIG. 11

IPR2025-00623
UIPATH EXHIBIT 1002

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	REAL-TIME AND ADAPTIVE DATA MINING
First Named Inventor/Applicant Name:	Sharon Gill CHADHA
Filer:	Puya Partow-Navid/Anna Tounian
Attorney Docket Number:	79531-000022

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	70	70
Utility Search Fee	2111	1	300	300
Utility Examination Fee	2311	1	360	360
Pages:				
Claims:				
Miscellaneous-Filing:				
Late Filing Fee for Oath or Declaration	2051	1	70	70
Petition:				

IPR2025-00623
UIPATH EXHIBIT 1002

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**800**

Electronic Acknowledgement Receipt

EFS ID:	24273375
Application Number:	14960309
International Application Number:	
Confirmation Number:	1063
Title of Invention:	REAL-TIME AND ADAPTIVE DATA MINING
First Named Inventor/Applicant Name:	Sharon Gill CHADHA
Customer Number:	98275
Filer:	Puya Partow-Navid/Anna Tounian
Filer Authorized By:	Puya Partow-Navid
Attorney Docket Number:	79531-000022
Receipt Date:	04-DEC-2015
Filing Date:	
Time Stamp:	21:59:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$800
RAM confirmation Number	6436
Deposit Account	502291
Authorized User	PARTOW-NAVID, PUYA

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	79531-22_ADS_AsFiled_04December2015.pdf	1824842 e79ec2448e44688d9bc805f669808b99944f5433	no	7
Warnings:					
Information:					
2		79531-22_App_AsFiled_04December2015.pdf	182025 084c40181163eee99ba64514ffd48bc7f4fe4bfb	yes	38

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Specification	1	36
	Claims	37	37
	Abstract	38	38

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3	Drawings-only black and white line drawings	79531-22_FDWG_AsFiled_04December2015.pdf	225322 08a967daca2c4f435bef79b52948937b5a20c4ae	no	14
Warnings:					
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4	Fee Worksheet (SB06)	fee-info.pdf	36858 c5cb7e84c0d86692cc13f0639136c3637942b8ae	no	2
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