Anatole Gershman

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PROFESSIONAL INTERESTS

Social simulation with LLMs, Information fusion, Automated knowledge acquisition, Active learning, Data Science, Dialog Systems

EDUCATION:

Yale University	PhD	Computer Science	5/79
Moscow State Pedagogical University	BS/MS	Mathematics and Computer Science	6/71

POSITIONS HELD:

Carnegie Mellon University, Language Technologies Institute, 4/07-6/23, Distinguished Career Professor – bringing 40+ years of industrial R&D experience to academic research and teaching

Accenture, 12/89-11/06, Global Director of Research (3/97-11/06), Chief Scientist (9/05-11/06), Director of Human Systems Integration Laboratory (12/89-3/97); Led all of the firm's applied technology research and technology assessment efforts worldwide, covering four main areas: intelligent devices, analytics, human computer interaction and systems integration

Coopers & Lybrand, 1/88-11/89, Director of National Decision Support Group; Led and supervised Expert and Knowledge-Based Systems development

Cognitive Systems, Inc, 5/82-12/88, Vice-president, Technology; Led and supervised numerous Artificial Intelligence software development projects including automatic message processing products and Conversational Advisory Systems in banking, brokerage, insurance and travel areas

Schlumberger, 1/80-4/82, Member of Professional Staff; Research and development in applications of AI techniques to geology and signal processing

Bell Laboratories, 4/79-12/80, Member of Technical Staff; Research in natural language processing and man-machine interfaces

PUBLICATIONS:

[1] Elizabeth Spaulding, Kathryn Conger, Anatole Gershman, Rosario Uceda-Sosa, Susan Windisch-Brown, James Pustejovsky, Peter Anick and Martha Palmer, 2023. The DARPA Wikipedia overlay wikidata as an ontology for natural language processing. *Proceedings of the 19th Joint ACL - ISO Workshop on Interoperable Semantic Annotation (ISA-19), June 20, 2023, Nancy, France*

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[7] Marujo, L., Ribeiro, R., Gershman, A., de Matos, D.M., Neto, J.P., Carbonell, J. (2017). Event-based summarization using a centrality-as-relevance model. *Knowledge and Information Systems*, *50*(3), 945.

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[15] Chen, Yun-Nung, et al. "Matrix Factorization with Knowledge Graph Propagation for Unsupervised Spoken Language Understanding." *ACL (1)*. 2015.

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PATENTS

13 US patents issued:

8,108,369; 7,904,501; 7,593,915; 7,401,734; 7,398,231; 7,194,428; 6,766,947; 6,705,522; 6,664,980; 6,539,281; 6,401,085; 6,356,905; 6,199,099