

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

TESLA, INC.,
Petitioner

Case IPR2025-00341

U.S. PATENT NO. 7,181,743

**DECLARATION OF SYLVIA D. HALL-ELLIS, PH.D.
UNDER 37 C.F.R. § 1.68 IN SUPPORT OF PETITION
FOR *INTER PARTES* REVIEW**

I. INTRODUCTION

1. My name is Sylvia D. Hall-Ellis. I have been retained as an expert by Counsel for Tesla (referred to herein as “Tesla”).

2. I have written this declaration at the request of Tesla to provide my expert opinion regarding the authenticity and public availability of three publications. My declaration sets forth my opinions in detail and provides the basis for my opinions regarding the public availability of these publications.

3. I reserve the right to supplement or amend my opinions, and basis for them, in response to any additional evidence, testimony, discovery, argument, and/or other additional information that may be provided to me after the date of this declaration. If called to testify in the above-captioned matter, I will testify with regard to the opinions and bases set forth below.

4. I am being compensated for my time spent working on this matter at my normal consulting rate of \$400 per hour, plus reimbursement for any additional reasonable expenses. My compensation is not in any way tied to the content of this declaration, the substance of my opinions, or the outcome of this proceeding. I have no other interests in this proceeding or with any of the parties.

5. All of the materials that I considered are discussed explicitly in this declaration.

II. QUALIFICATIONS

6. I am currently an Adjunct Professor in the School of Information at San José State University. I obtained a Master of Library Science from the University of North Texas in 1972 and a Ph.D. in Library and Information Science from the University of Pittsburgh in 1985. Over the last fifty years, I have held various positions in the field of library and information resources. I was first employed as a librarian in 1966 and have been involved in the field of library sciences since, holding numerous positions.

7. I am a member of the American Library Association (“ALA”) and its Association for Library Collections & Technical Services (“ALCTS”) Division, and I served on the Committee on Cataloging: Resource and Description (which wrote the new cataloging rules) and as the chair of the Committee for Education and Training of Catalogers and the Competencies and Education for a Career in Cataloging Interest Group. I also served as the Chair of the ALCTS Division’s Task Force on Competencies and Education for a Career in Cataloging. Additionally, I served as the Chair for the ALA Office of Diversity’s Committee on Diversity, as a member of the REFORMA National Board of Directors, and as a member of the Editorial Board for the ALCTS premier cataloging journal, *Library Resources and Technical Services*, as a Co-Chair of the Membership Committee for the Library Research Round Table (LRRT) of the American Library

Association, and as a member of the LRRT Nominating Committee. Currently I serve as a member of the CORE Margaret Mann Citation Committee.

8. I have also given over one-hundred presentations in the field, including several on library cataloging systems and Machine-Readable Cataloging (“MARC”) standards. My current research interests include library cataloging systems, metadata, and organization of electronic resources.

9. I have been deposed thirty-eight times: (1) *Symantec Corp. vs. Finjan, Inc.*, Petition for *Inter Partes Review* of U.S. Patent No. 7,613,926, May 26, 2016, on behalf of Symantec Corp.; (2) *Symantec Corp. vs. Finjan, Inc.*, Northern District of California, 14-cv-299-HSG, on behalf of Symantec Corp., September 14, 2017; (3) one deposition for ten matters: *Intellectual Ventures I LLC vs. AT&T Mobility LLC*; AT&T Mobility II LLC, New Cingular Wireless Services, Inc., SBC Internet Services, Inc., Wayport, Inc., and Cricket Wireless LLC, C.A. No. 12-193 (LPS); *Intellectual Ventures II LLC vs. AT&T Mobility LLC*; AT&T Mobility II LLC, New Cingular Wireless Services, Inc., SBC Internet Services, Inc., Wayport, Inc., and Cricket Wireless LLC, C.A. No. 13-1631 (LPS); *Intellectual Ventures I LLC vs. T-Mobile USA, Inc. and T-Mobile US, Inc.*, C.A. No. 13-1632 (LPS); *Intellectual Ventures II LLC vs. T-Mobile USA, Inc. and T-Mobile US, Inc.*, C.A. No. 13-1633 (LPS); *Intellectual Ventures I LLC, vs. Nextel Operations, Inc., Sprint Spectrum L.P., Boost Mobile, LLC and Virgin Mobile USA, L.P.*, C.A. No. 13-1634

(LPS); *Intellectual Ventures II LLC vs. Nextel Operations, Inc., Sprint Spectrum L.P., Boost Mobile, LLC and Virgin Mobile USA, L.P.*, C.A. No. 13-1635 (LPS); *Intellectual Ventures I LLC, vs. United States Cellular Corporation*, C.A. No. 13-1636 (LPS); *Intellectual Ventures I LLC vs. United States Cellular Corporation*, C.A. No. 13-1637 (LPS); *Intellectual Ventures II LLC vs. AT&T Mobility LLC, AT&T Mobility II LLC, New Cingular Wireless Services, Inc.*, C.A. No. 15-799 (LPS); *Intellectual Ventures I LLC vs. T-Mobile USA, Inc. and T-Mobile US, Inc.*, C.A. No. 15-800 (LPS), on behalf of AT&T Mobility LLC; AT&T Mobility II LLC, Boost Mobile, LLC Cricket Wireless LLC, Nextel Operations, Inc., New Cingular Wireless Services, Inc., SBC Internet Services, Inc., Sprint Spectrum L.P., T-Mobile USA, Inc., T-Mobile US, Inc., United States Cellular Corporation Virgin Mobile USA, L.P., and Wayport, Inc., November 15, 2016; (4) *Hitachi Maxell, LTD., v. Top Victory Electronics (Taiwan) Co. Ltd., et al.*, Eastern District of Texas, 2:14-cv-1121 JRG-RSP (E.D. Texas), on behalf of Top Victory Electronics (Taiwan) Co. LTD, *et. al.*, January 20, 2016; (5) *Sprint Spectrum, L.P. vs. General Access Solutions, Ltd.*, Petition for *Inter Partes* Review of U.S. Patent No. 7,173,916, on behalf of Sprint Spectrum L.P., July 13, 2018; (6) *Nichia Corporation vs. Vizio, Inc.*, Central District of California, 8:16-cv-00545; on behalf of Vizio, Inc., October 12, 2018; (7) *Intellectual Ventures I LLC, vs. T-Mobile USA, Inc., T-Mobile US, Inc., Ericsson Inc., and Telefonaktiebolaget LM Ericsson*,

Middle District of Florida, 2:17-cv-00557 (JRG), on behalf of T-Mobile USA, Inc., T-Mobile US, Inc., Ericsson Inc., and Telefonaktiebolaget LM Ericsson, October 19, 2018; (8) Pfizer, Inc. vs. Biogen, Inc., Petition for *Inter Partes* Review of U.S. Patent No. 8,821,873, on behalf of Pfizer, November 3, 2018; (9) *Finjan, Inc. vs. ESET, LLC and ESET SPOL. S.R.O.*, Southern District of California, 3:17-cv-00183-CAB-BGS, on behalf of ESET, January 15, 2019; (10) *Finjan, Inc. vs. Cisco Systems, Inc.*, Northern District of California, 5:17-cv-00072-BLF-SVK, on behalf of Cisco Systems, Inc., September 6, 2019; (11) *Facebook, Inc., Instagram, LLC and Whatsapp Inc. vs. Blackberry Limited*, Petition for *Inter Partes* Review of U.S. Patent No. 9,349,120 B2, on behalf of Facebook, Inc., Instagram, LLC and Whatsapp Inc. December 20, 2019; (12) *3Shape A/S and Shape Inc. v. Align Technology, Inc.*, Petition for *Inter Partes* Review of U.S. Patent No. 7,156,661, IPR2020-00222 and IPR2020-00223, August 10, 2020, on behalf of 3Shape A/S and 3Shape Inc.; (13) *Finjan Inc. v. Rapid7, Inc. and Rapid7 LLC*, District of Delaware, 1:18-cv-01519-MN, September 15, 2020; (14) *VLSI Technology LLC v. Intel Corporation*, Western District of Texas, 6:19-cv-00254, 6:19-cv-00255, 6:19-cv-00256, on behalf of Intel Corporation, September 23, 2020; (15) *Finjan Inc. v. Sonicwall, Inc.*, Northern District of California, 5:17-cv-04467-BLF-HRL, on behalf of Sonicwall, Inc., October 27, 2020; (16) *VLSI Technology, LLC v. Intel Corporation*, District of Delaware, 1:18-cv-00966-CFC-CJB, February 5, 2021, on

behalf of the Intel Corporation; (17) *Unified Patents, LLC v. Good Kaisha IP Bridge I*, Petition for *Inter Partes* Review of U. S. Patent 7,817,868, February 11, 2021, on behalf of Unified Patents; (18) *Finjan, Inc. v. Qualsys, Inc.*, Northern District of California, 4:18-cv-07229-YGR, March 1, 2021, on behalf of Qualsys, Inc.; (19) *Qualcomm, Inc. v. Monterey Research LLC*, Petition for *Inter Partes* Review of U. S. Patent 6,534,805, May 6, 2021, on behalf of Qualcomm, Inc.; (20) *Hulu, LLC v. Sound View Innovations, LLC*, Petition for *Inter Partes* Review of U. S. Patent 5,806,062, May 14, 2021, on behalf of Hulu, LLC; (21) *VLSI Technology LLC v. Intel Corporation*, Western District of Texas, 6:19-cv-00254, 6:19-cv-00255 and 6:19-cv-00256, August 3, 2021, on behalf of Intel Corporation; (22) *Liquidia Technologies, Inc. v. United Therapeutics Corporation*, Petition for *Inter Partes* Review of U. S. Patent 10,716,793 B2, October 20, 2021, on behalf of Liquidia Technologies, Inc.; (23) *EcoFactor, Inc. v. Google, Inc.*, Western District of Texas, 6:20-cv-00075 (ADA), 6:20-0078-ADA, and 6:20-cv-00080 ADA, October 27, 2021, on behalf of Google, Inc.; (24) *Liquidia Technologies, Inc. v. United Therapeutics Corporation*, Petition for *Inter Partes* Review of U. S. Patent 10,716,793 B2, March 11, 2022, on behalf of Liquidia Technologies, Inc.; (25) *Juniper Networks, Inc. v. Swarm Technology LLC*, Petition for *Inter Partes* Review of U. S. Patent 9,852,004, May 5, 2022, on behalf of Juniper Networks, Inc.; (26) *ParkerVision, Inc. v. Intel Corporation*, Western District of Texas, 6:20-cv-108

(ADA), October 26, 2022, on behalf of the Intel Corporation; (27) *CommScope v. TQ Delta*, Petition for *Inter Partes Review* of U. S. Patents 9,094,348 and 10,833,809, February 16, 2023, on behalf of CommScope; (28) *WSOU Investments d/b/a Brazos v. Salesforce.com, Inc.* for Western District of Texas, 6:20-cv-01164-ADA and 6:20-cv-01170-ADA, April 18, 2023, on behalf of Salesforce; (29) *Regents of the University of Minnesota v. AT&T Mobility LLC*, District of Minnesota, 14:cv-4999-JRT-TNL & 14-cv-4669-JRT-TNL, May 18, 2023, on behalf of AT & T Mobility LLC; (30) *VLSI Technology LLC v. Intel Corporation*, Northern District of California, 5:17-cv-0571-BLF-NC, July 11, 2023, on behalf of Intel Corporation; (31) *Trustees of Purdue University v. ST Microelectronics*, Western District of Texas, 6:21-cv-00727-ADA, July 27, 2023, on behalf of ST Microelectronics; (32) *Advanced Micro Devices, Inc. v. Realtek Semiconductor Corp.*, Petition for *Inter Partes Review* of U. S. Patents 7,936,245 & 9,590,582, August 10, 2023, on behalf of Advanced Micro Devices, Inc.; (33) *Motif Foodworks, Inc. v. Impossible Foods, Inc.*, Petition for *Inter Partes Review* of U. S. Patent 9,943,096, August 24, 2023, on behalf of Motif Foodworks, Inc.; (34) *Network System Technologies, LLC v. Texas Instruments, Inc.*, Eastern District of Texas, 2:22-cv-00482-RWS, March 20, 2024, on behalf of Texas Instruments, Inc.; (35) *Pardalis Technology Licensing, LLC v. International Business Machines Corporation*, Eastern District of Texas, 2:22-cv-00452, May 23, 2024, on behalf of

International Business Machines, Corporation; (36) *Pardalis Technology Licensing, LLC v. International Business Machines, Corporation*, Eastern District of Texas, 2:22-cv-00452, May 23, 2024, on behalf of International Business Machines, Corporation; (37) *Meta Platforms, InstaGram, Inc., Whatsapp LLC, Facebook Technologies LLC, and Giphy, Inc. v. VL Collective IP LLC*, Petition for *Inter Partes Review* of U. S. Patent 7,436,980, July 18, 2024, on behalf of Meta Platforms, InstaGram, Inc., Whatsapp LLC, Facebook Technologies LLC, and Giphy, Inc.; and, (38) *LCY Biotechnology Holding, Inc. v. RadiciChimica S.p.A*, Petition for *Inter Partes Review* of U. S. Patent 11,781,148, August 6, 2024, on behalf of LCY Biotechnology Holding, Inc. I have testified at trial three times: (1) *Advanced Micro Devices, Inc. v. Realtek Semiconductor Corp.*, U. S. Patents 7,936,245 & 9,590,582, October 20, 2023, International Trade Commission, Washington, DC, on behalf of Advanced Micro Devices, Inc.; (2) *Trustees of Purdue University v. ST Microelectronics*, Western District of Texas, 6:21-cv-00727-ADA, November 29, 2023, on behalf of ST Microelectronics; and, (3) *Certain Power Converter Modules and Computing Systems Containing the Same*, Investigation ITC-337-TA-1370, International Trade Commission, May 1, 2024, on behalf of Delta Electronics, Inc.

10. My full *curriculum vitae* is submitted herewith as Appendix A.

III. PRELIMINARIES

A. Scope of this declaration.

11. I have been asked to offer an opinion on the public availability dates of the following documents:

- a. Welch, Lonnie R., Binoy Ravindran, Paul V. Werme, Michael W. Masters, Behrooz A. Shirazi, Prashant A. Shirolkar, Robert D. Harrison, Wayne Mills, Tuy Do, Judy Lafratta, Shafqat M. Anwar, Steve Sharp, Terry Sergeant, George Bilowus, Mark Swick, Jim Hoppel, and Joe Caruso. “Distributed, Scalable, Dependable Real-Time Systems: Middleware Services and Applications.” *Proceedings: 13th International Parallel Processing Symposium & 10th Symposium on Parallel and Distributed Processing* (pp. 297-301). IPPS/SPDP 1999. Los Alamitos, CA: IEEE Computer Society, 1999 (“Welch,” Exhibit 1005).
- b. Welch, Lonnie R., Binoy Ravindran, Behrooz A. Shirazi, and Carl Bruggeman. “Specification and Modeling of Dynamic, Distributed Real-time Systems.” *Proceedings 19th IEEE Real-Time Systems Symposium* (pp. 72-81). Los Alamitos, CA: IEEE Computer Society, 1998 (“Ravindran,” Exhibit 1006).

12. I am informed by counsel that the alleged priority date for the patent

at issue is May 25, 2000. As I will explain below, it is my opinion that the publications discussed in my declaration were publicly accessible before the alleged May 25, 2000, priority date.

13. I am not an attorney and will not offer opinions on the law. I am, however, rendering my expert opinion on the authenticity of the documents referenced herein and on when and how each of these documents was disseminated or otherwise made available to the extent that persons interested and ordinarily skilled in the subject matter or art, exercising reasonable diligence, could have located the documents before May 25, 2000.

14. I am informed by counsel that an item is considered authentic if there is sufficient evidence to support a finding that the item is what it is claimed to be. I am also informed that authenticity can be established based on the contents of the documents themselves, such as the appearance, contents, substance, internal patterns, or other distinctive characteristics of the item, taken together with all of the circumstances. I am further informed that an item is considered authentic if it is at least 20 years old, in a condition that creates no suspicion of its authenticity, and in a place where, if authentic, it would likely be. Lastly, I have been informed that a document's authenticity can be established by comparison with an authentic specimen.

15. I am informed by counsel that a printed publication qualifies as

publicly accessible as of the date it was disseminated or otherwise made available such that a person interested in and ordinarily skilled in the relevant subject matter could locate it through the exercise of ordinary diligence.

16. While I understand that the determination of public accessibility under the foregoing standard rests on a case-by-case analysis of the facts particular to an individual publication, I also understand that a printed publication is rendered “publicly accessible” if it is cataloged and indexed by a library such that a person interested in the relevant subject matter could locate it (*i.e.*, I understand that cataloging and indexing by a library is sufficient, though there are other ways that a printed publication may qualify as publicly accessible). One manner of sufficient indexing is indexing according to subject matter category. I understand that the cataloging and indexing by a single library of a single instance of a particular printed publication is sufficient, even if the single library is in a foreign country. I understand that, even if access to a library is restricted, a printed publication that has been cataloged and indexed therein is publicly accessible so long as a presumption is raised that the portion of the public concerned with the relevant subject matter would know of the printed publication. I also understand that the cataloging and indexing of information that would guide a person interested in the relevant subject matter to the printed publication, such as the cataloging and indexing of an abstract for the printed publication, is sufficient to render the

printed publication publicly accessible.

17. I understand that routine business practices, such as general library cataloging and indexing practices, can be used to establish an approximate date on which a printed publication became publicly accessible.

B. Person of Ordinary Skill in the Art

18. I am told by counsel that the subject matter of this proceeding relates generally to a “a distributed environment comprised of hosts instantiating copies of a scalable application.” Ex.1001, 2:46-47.

19. I am informed by counsel that a “person of ordinary skill in the art at the time of the invention” (“POSITA”) is a hypothetical person who is presumed to be familiar with the relevant field and its literature at the time of invention. This hypothetical person is also a person of ordinary creativity, capable of understanding the scientific principles applicable to the pertinent field.

20. I was told by counsel that POSITA would have been someone knowledgeable and familiar with the areas of networking and distributed computing that are pertinent to the ’743 patent. That person would have a bachelor’s degree in computer science, computer engineering, electrical engineering, or equivalent training, and approximately 2-3 years of professional experience relating to distributed computing.

21. It is my opinion that such a person would have been engaged in research, learning through study, and practice in the field and possibly through formal instruction the bibliographic resources relevant to his or her research. By no later than the early 2000s (and more specifically, before May 25, 2000), such a person would have had access to a vast array of long-established print resources in the field, as well as to a rich set of online resources providing indexing information, abstracts, and full text services for publications relevant to the field of this dispute, including at least the publications discussed in this declaration.

C. Authoritative Databases

22. In preparing this declaration, I used authoritative databases, such as the OCLC WorldCat, the Library of Congress Online Catalog, and the U. S. Copyright Office database, to confirm citation details of the publications discussed.

23. *OCLC WorldCat Database.* The OCLC was created “to establish, maintain and operate a computerized library network and to promote the evolution of library use, of libraries themselves, and of librarianship, and to provide processes and products for the benefit of library users and libraries, including such objectives as increasing availability of library resources to individual library patrons and reducing the rate of rise of library per-unit costs, all for the fundamental public purpose of furthering ease of access to and use of the ever-expanding body of worldwide scientific, literary and educational knowledge and

information.”¹ Among other services, OCLC and its members are responsible for maintaining the WorldCat database,² used by independent and institutional libraries throughout the world.

24. *U. S. Copyright Office.* Created by Congress in 1897, the Copyright Office is responsible for administering a complex and dynamic set of laws, which include registration, the recordation of title and licenses, a number of statutory licensing provisions, and other aspects of the *1976 Copyright Act* and the *1998 Digital Millennium Copyright Act*. The public catalog in the Copyright Office includes information filed since 1978.³ Individuals can search by title, personal or corporate name, key word, registration number, and document number. Works filed before 1978 can be located through the Copyright Public Records Reading Room.⁴ A researcher can find the date on which an item was published and deposited for copyright.

¹ Third Article, Amended Articles of Incorporation of OCLC Online Computer Library Center, Incorporated (available at <https://www.oclc.org/content/dam/oclc/membership/articles-of-incorporation.pdf>)

² <http://www.worldcat.org/>

³ <https://cocatalog.loc.gov/cgi-bin/Pwebrecon.cgi?DB=local&PAGE=First>

⁴ <https://www.copyright.gov/circs/circ23.pdf>

D. Indexing

25. A researcher may discover material relevant to his or her topic in a variety of ways. One common means of discovery is to search for relevant information in an index of periodical and other publications. Having found relevant material, the researcher will then normally obtain it online, look for it in libraries, or purchase it from a publisher, a bookstore, a document delivery service, or other provider. Sometimes, the date of a document's public accessibility will involve both indexing and library date information. However, date information for indexing entries is often unavailable. This is especially true for online indices.

26. Indexing services use a wide variety of controlled vocabularies to provide subject access and other means of discovering the content of documents. The formats in which these access terms are presented vary from service to service.

27. Before the widespread development of online databases to index articles in journals, magazines, conference papers, and technical declarations, libraries purchased printed volumes of indices. Graduate library school education mandated that students learn about the bibliographic control of disciplines, the prominent indexing volumes, and searching strategies required to use them effectively and efficiently. Half of the courses that I studied in library school were focused on bibliography and resources in academic disciplines.

28. Librarians consulted with information seekers to verify citations, check availability in union catalogs, printed books catalogs, and the OCLC database, and make formal requests for materials, *e.g.*, books, conference proceedings, journal articles. Requests were transmitted using Telex machines, rudimentary email systems, and the United States Postal Service. During my career, I have performed and supervised staff who handled these resource sharing tasks.

29. A major firm known for the breadth of subjects and comprehensive treatment in the preparation of index volumes, the H. W. Wilson Company offered these reference resources since the firm was founded in 1898. The *Reader's Guide to Periodical Literature* is one of the best-known titles available from H. W. Wilson. Each volume includes a comprehensive index for 300 of the most popular and important periodicals published in the United States and Canada. Information seekers have subject access expressed in plain language terminology, author access, and cross references to find the desired results from their searches. The family of index titles included *Science & Technology Index*, *Business Periodicals*, *Applied Science & Technology Index*, *Humanities Index*, *Biological & Agricultural Index*, and *Industrial Arts Index*. These printed indices have been superseded by digital database offerings available to information seekers through Ebsco.

30. Online indexing services commonly provide bibliographic information, abstracts, and full-text copies of the indexed publications, along with a list of the documents cited in the indexed publication. These services also often provide lists of publications that cite a given document. A citation of a document is evidence that the document was publicly available and in use no later than the publication date of the citing document.

IV. LIBRARY CATALOGING PRACTICES

A. MARC RECORDS AND THE ONLINE LIBRARY CATALOG

31. I am fully familiar with the library cataloging standard known as the MARC standard, which is an industry-wide standard method of storing and organizing library catalog information.⁵ MARC was first developed in the 1960s by the Library of Congress. A MARC-compatible library is one that has a catalog consisting of individual MARC records for each of its items. Today, MARC is the primary communications protocol for the transfer and storage of bibliographic metadata in libraries.⁶

⁵ The full text of the standard is available from the Library of Congress at <http://www.loc.gov/marc/bibliographic/>.

⁶ Almost every major library in the world is MARC-compatible. *See, e.g., MARC Frequently Asked Questions (FAQ)*, Library of Congress, <https://www.loc.gov/marc/faq.html> (last visited September 2, 2024) (“MARC is the acronym for MACHine-Readable Cataloging. It defines a data format that

32. MARC is a framework into which descriptive bibliographic data are transcribed to interact with the software in online library catalogs to provide access to books, journals, and other resources in the collection. The bibliographic data provide points of access and can be searched by a person of ordinary skill in the art (“POSITA”) to identify and obtain resources in the library collection. An information seeker (or POSITA) can search a local online library catalog or the holdings of a group of libraries in a state or region or in the global catalog WorldCat.

33. MARC records are not designed for public viewing. Although a significant number of libraries provide access to the MARC version of a bibliographic record, the public display is designed to show information in a succinct manner that is quickly understood and useful to the information seeker. Libraries determine the default search for the online catalog to make the entry of search terms efficient and result in a successful search. Information seekers can enter a keyword, title, author, or standard number for the item. Libraries may also provide a search capability called “Summon” that allows the information seeker to

emerged from a Library of Congress-led initiative that began nearly forty years ago. It provides the mechanism by which computers exchange, use, and interpret bibliographic information, and its data elements make up the foundation of most library catalogs used today.”). MARC is the ANSI/NISO Z39.2-1994 (reaffirmed 2016) standard for Information Interchange Format.

enter known information about the item to conduct a search.

34. Since at least the early 1970s and continuing to the present day, MARC has been the primary communications protocol for the transfer and storage of bibliographic metadata in libraries.⁷ As explained by the Library of Congress:

You could devise your own method of organizing the bibliographic information, but you would be isolating your library, limiting its options, and creating much more work for yourself. Using the MARC standard prevents duplication of work and allows libraries to better share bibliographic resources. Choosing to use MARC enables libraries to acquire cataloging data that is predictable and reliable. If a library were to develop a “home-grown” system that did not use MARC records, it would not be taking advantage of an industry-wide standard whose primary purpose is to foster communication of information.

Using the MARC standard also enables libraries to make use of commercially available library automation systems to manage library operations. Many systems are available for libraries of all sizes and are designed to work with the MARC format. Systems are maintained and improved by the vendor so that libraries can benefit from the

⁷ A complete history of the development of MARC can be found in *MARC: Its History and Implications* by Henrietta D. Avram (Washington, DC: Library of Congress, 1975) and available online from the Hathi Trust (<https://babel.hathitrust.org/cgi/pt?id=mdp.39015034388556;view=1up;seq=1>; last visited September 2, 2024).

latest advances in computer technology. The MARC standard also allows libraries to replace one system with another with the assurance that their data will still be compatible.

Why Is a MARC Record Necessary? LIBRARY OF CONGRESS, <http://www.loc.gov/marc/umb/um01to06.html#part2> (last visited September 2, 2024).

35. Examining the MARC records for a specific item reveals the comprehensive data transcribed about a particular item at the time that cataloging and classification occurred. In addition to the creator, title, subjects, and standard numbers, additional information may provide additional and relevant data depending on the type of resource. Understanding the full extent of bibliographic data for an item and the points of access associated with it provides essential information that can be used to determine the indexing and public availability for documents described in this Declaration.

B. MARC RECORDS

36. A MARC record comprises several fields, each of which contains specific data about the work. Each field is identified by a standardized, unique, three-digit code corresponding to the type of data that follow. For example, a work's title is recorded in field 245, the primary author or creator of the work is recorded in field 100, an item's International Standard Book Number ("ISBN") is recorded in field 020, an item's International Standard Serial Number ("ISSN") is

recorded in field 022, an item's Library of Congress call number is recorded in field 050, and the publication date is recorded in field 260 under the subfield "c." *Id.*⁸ If a work is a periodical, then its publication frequency is recorded in field 310, alternate publication frequency is recorded in field 321, and the publication dates (*e.g.*, the first and last publication) are recorded in field 362, which is also referred to as the enumeration/chronology field. *See* <http://www.loc.gov/marc/bibliographic/bd3xx.html> (last visited September 2, 2024).

37. The library that created the record is recorded in Field 040 in subfield "a" with a unique library code. When viewing the MARC record online via Online Computer Library Center's ("OCLC") bibliographic database, hovering over this code with the mouse reveals the full name of the library. I used this method of "mousing over" the library codes in the OCLC database to identify the originating library for the MARC records discussed in this Declaration. Where this "mouse over" option was not available, I consulted the Directory of OCLC Libraries to

⁸ In some MARC records, field 264 is used rather than field 260 to record publication information. *See* <http://www.loc.gov/marc/bibliographic/bd264.html> (last visited September 2, 2024) ("Information in field 264 is similar to information in field 260 (Publication, Distribution, etc. (Imprint)). Field 264 is useful for cases where the content standard or institutional policies make a distinction between functions").

identify the institution that created the MARC record.⁹

38. MARC records also include several fields that include subject matter classification information. An overview of MARC record fields is available through the Library of Congress at <http://www.loc.gov/marc/bibliographic/>. For example, 6XX fields are termed “Subject Access Fields.” *See* <http://www.loc.gov/marc/bibliographic/bd6xx.html>. Among these, for example, is the 650 field; this is the “Subject Added Entry – Topical Term” field. *See* <http://www.loc.gov/marc/bibliographic/bd650.html>. The 650 field is a “[s]ubject added entry in which the entry element is a topical term.” *Id.* These authenticated subject entries “are assigned to a bibliographic record to provide access according to generally accepted thesaurus-building rules (e.g., *Library of Congress Subject Headings* (LCSH), *Medical Subject Headings* (MeSH)).” *Id.*

39. Further, MARC records include call numbers, which themselves indicate a subject and physical location within the library collections. For example, the 050 field is the “Library of Congress Call Number.” *See* <http://www.loc.gov/marc/bibliographic/bd050.html> (last visited September 2, 2024). A defined portion of the Library of Congress Call Number is the classification number, and “source of the classification number is *Library of Congress Classification* and the *LC Classification-Additions and Changes*.” *Id.*

⁹ <https://www.oclc.org/en/contacts/libraries.html>

Thus, included in the 050 field is a subject matter classification. Each item in a library has a single classification number. A library selects a classification scheme (*e.g.*, the Library of Congress Classification scheme just described or a similar scheme such as the Dewey Decimal Classification scheme or the National Library of Medicine Classification scheme) and uses it consistently. When the Library of Congress assigns the classification number, it appears as part of the 050 field. If a local library assigns the classification number, it appears in a 090 field. In either scenario, the MARC record includes a classification number that represents a subject matter classification.

40. Each item in a library has a single classification number. A library selects a classification scheme (*e.g.*, the Library of Congress Classification scheme just described or a similar scheme such as the Dewey Decimal Classification scheme) and uses it consistently. When the Library of Congress assigns the classification number, it appears as part of the 050 field, as discussed above. For MARC records created by libraries other than the Library of Congress (*e.g.*, a university library or a local public library), the classification number may appear in a 09X (*e.g.*, 090) field. See <http://www.loc.gov/marc/bibliographic/bd09x.html> (last visited September 2, 2024).

C. OCLC

41. The OCLC was created “to establish, maintain and operate a computerized library network and to promote the evolution of library use, of libraries themselves, and of librarianship, and to provide processes and products for the benefit of library users and libraries, including such objectives as increasing availability of library resources to individual library patrons and reducing the rate of rise of library per-unit costs, all for the fundamental public purpose of furthering ease of access to and use of the ever-expanding body of worldwide scientific, literary and educational knowledge and information.”¹⁰ Among other services, OCLC and its members are responsible for maintaining the WorldCat database (<http://www.worldcat.org/>), used by independent and institutional libraries throughout the world.

42. OCLC also provides its members online access to MARC records through its OCLC bibliographic database. When an OCLC member institution acquires a work, it creates a MARC record for this work in its computer catalog system in the ordinary course of its business. MARC records created at the Library of Congress were initially tape-loaded into the OCLC database through a

¹⁰ Third Article, Amended Articles of Incorporation of OCLC Online Computer Library Center, Incorporated (available at <https://www.oclc.org/content/dam/oclc/membership/articles-of-incorporation.pdf>).

subscription to MARC Distribution Services daily or weekly. Once the MARC record is created by a cataloger at an OCLC member institution or is tape-loaded from the Library of Congress, the MARC record is then made available to any other OCLC members online, and therefore made available to the public. Accordingly, once the MARC record is created by a cataloger at an OCLC member institution or is tape-loaded from the Library of Congress or another library anywhere in the world, any publication corresponding to the MARC record has been cataloged and indexed according to its subject matter such that a person interested in that subject matter could, with reasonable diligence, locate and access the publication through any library with access to the OCLC bibliographic database or through the Library of Congress.

43. When an OCLC member institution creates a new MARC record, OCLC automatically supplies the date of creation for that record. The date of creation for the MARC record appears in the fixed field (008), characters 00 through 05. The MARC record creation date reflects the date on which the item was first acquired or cataloged. Initially, field 005 of the MARC record is automatically populated with the date the MARC record was created in year, month, day format (YYYYMMDD) (some of the newer library catalog systems also include hour, minute, second (HHMMSS)). Thereafter, the library's computer system may automatically update the date in field 005 every time the library

updates the MARC record (*e.g.*, to reflect that an item has been moved to a different shelving location within the library). Field 005 is visible when viewing a MARC record via an appropriate computerized interface. The initial field 005 date (*i.e.*, the date the MARC record was created) does appear. The date upon which the most recent update to field 005 occurred also appears in field 005. Thus, when an item's MARC record has been printed to hardcopy—as is the case with the exhibits to this declaration—the date reflected next to field 008 is necessarily on or after the date the library first cataloged and indexed the underlying item.

44. Once one library has cataloged and indexed a publication by creating a MARC record for that publication, other libraries that receive the publication do not create additional MARC records—the other libraries instead rely on the original MARC record. They may update or revise the MARC record to ensure accuracy, but they do not replace or duplicate it. This practice does more than save libraries from duplicating labor, it also enhances the accuracy of MARC records. It also allows librarians around the world to know that a particular MARC record is authoritative. In contrast, a hypothetical system wherein duplicative records were created would result in confusion as to which record is authoritative.

45. The date of creation of the MARC record by a cataloger at an OCLC member institution reflects when the underlying item is accessible to the public. Upwards of two-thirds to three-quarters of book sales to libraries come from a

jobber or wholesaler for online and print resources. These resellers make it their business to provide books to their customers as fast as possible, often providing turnaround times of only a single day after publication. Libraries purchase a significant portion of the balance of their books directly from publishers themselves, which provide delivery on a similarly expedited schedule. In general, libraries make these purchases throughout the year as the books are published and shelve the books as soon thereafter as possible in order to make the books available to their patrons. Thus, books are generally available at libraries across the country within just a few days of publication.

V. PUBLICATIONS IN THIS PROCEEDING

- A. “Distributed, Scalable, Dependable Real-Time Systems: Middleware Services and Application” by Lonnie R. Welch, Binoy Ravindran, Paul V. Werme, Michael W. Masters, Behrooz A. Shirazi, Prashant A. Shirolkar, Robert D. Harrison, Wayne Mills, Tuy Do, Judy Lafratta, Shafqat M. Anwar, Steve Sharp, Terry Sergeant, George Bilowus, Mark Swick, Jim Hoppel, and Joe Caruso. (“Welch”) [Exhibit 1005]**

46. Attached hereto as Exhibit 1005 is a copy of a conference paper published in the volume titled *Proceedings: 13th International Parallel Processing Symposium & 10th Symposium on Parallel and Distributed Processing* found in the Karl F. Wendt Engineering Library at the University of Wisconsin – Madison. The conference paper titled “Distributed, Scalable, Dependable Real-Time Systems: Middleware Services and Application” by Lonnie R. Welch, Binoy

Ravindran, Paul V. Werme, Michael W. Masters, Behrooz A. Shirazi, Prashant A. Shirolkar, Robert D. Harrison, Wayne Mills, Tuy Do, Judy Lafratta, Shafqat M. Anwar, Steve Sharp, Terry Sergeant, George Bilowus, Mark Swick, Jim Hoppel, and Joe Caruso (hereafter “Welch”) appears beginning on page 297. The 13th International Parallel Processing Symposium & 10th Symposium on Parallel and Distributed Processing were held concurrently on April 12-16, 1999, in San Juan, Puerto Rico. Exhibit 1005 is a true and correct copy of the Welch conference paper (pages 297-301). I obtained this copy of the conference paper from the Karl F. Wendt Engineering Library at the University of Wisconsin – Madison. Specifically, the text of the Welch conference paper is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1005 was found within the custody of a library – a place where, if authentic, a copy of this volume of conference proceedings would likely be. Exhibit 1005 is a true and correct copy in a condition that creates no suspicion about authenticity.

47. The Welch conference paper is also available in the *IEEE Xplore* database¹¹ and the *ACM Digital Library*.¹²

48. Attached hereto as Attachment 1A is a true and correct copy of the

¹¹ <https://ieeexplore.ieee.org/document/760491>

¹² <https://dl.acm.org/doi/10.5555/645608.662160>

MARC record for this volume of conference proceedings from the Karl F. Wendt Engineering Library at the University of Wisconsin – Madison online catalog. The library ownership is indicated by the presence of the library’s code (“GZM”) in the 049 field. The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to the MARC record occurred on March 14, 2011, as shown in field 005 (“20110314”). I personally identified and retrieved the library catalog record which is Attachment 1A.

49. Based on finding a print copy of Exhibit 1005 in the Karl F. Wendt Engineering Library at the University of Wisconsin – Madison and MARC record in its online library catalog attached as Attachment 1A, it is my opinion that the volume titled *Proceedings: 13th International Parallel Processing Symposium & 10th Symposium on Parallel and Distributed Processing* was publicly available at the Karl F. Wendt Engineering Library at the University of Wisconsin – Madison as of December 16, 1999, as shown in field 008 (“991216”).

50. Attached hereto as Attachment 1B is a true and correct copy of the MARC record for the volume titled *Proceedings: 13th International Parallel Processing Symposium & 10th Symposium on Parallel and Distributed Processing* obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 1B. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For

Attachment 1B, that library code is “LHL,” which means that the MARC record for this five-volume set of conference proceedings was cataloged at the Linda Hall Library of Science, Engineering & Technology. As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger at the Linda Hall Library of Science, Engineering & Technology created OCLC record number 41254579 on December 16, 1999, (“991216”) as shown in the field 008 (“Date entered on file”). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to the MARC record occurred on October 25, 2022, as shown in field 005 (“20221025”).

51. Attachment 1B further includes an entry in field 050 (“QA76.58 \$b .M47 1999”)—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system). Attachment 1B also shows that Exhibit 1005 was catalogued with two descriptor terms reading “Parallel processing (Electronic computers) \$v Congresses” (see Attachment 1C, Library of Congress subject heading sh2008108874) and “Electronic data processing \$x Distributed processing \$v Congresses” (Attachment 1D, Library of Congress subject heading sh2008102927) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 1B was indexed according to its subject matter by virtue of at least two independently sufficient

classifications: the field 050 entry and the field 650 entries. Further, as of December 16, 1999, the MARC record attached hereto as Attachment 1B was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that acquired the volume of conference proceedings, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

52. WorldCat indicates that the volume titled *Proceedings: 13th International Parallel Processing Symposium & 10th Symposium on Parallel and Distributed Processing* as cataloged at the Linda Hall Library of Science, Engineering & Technology is currently available from 321 libraries.¹³ In view of the above, the volume titled *Proceedings: 13th International Parallel Processing Symposium & 10th Symposium on Parallel and Distributed Processing* was publicly available by December 16, 1999, because by that date it had been received, cataloged, and indexed at the Linda Hall Library of Science, Engineering & Technology and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1005 was published and publicly accessible by December 16, 1999.

¹³ <https://search.worldcat.org/title/41254579>

B. “Specification and Modeling of Dynamic, Distributed Real-time Systems” by Lonnie R. Welch, Binoy Ravindran, Behrooz A. Shirazi, and Carl Bruggeman. (“Ravindran”) [Exhibit 1006]

53. Attached hereto as Exhibit 1006 is a copy of a conference paper published in the volume titled *Proceedings 19th IEEE Real-Time Systems Symposium* found in the Linda Hall Library of Science, Engineering & Technology (Kansas City, Missouri). The conference paper titled “Specification and Modeling of Dynamic, Distributed Real-time Systems” by Lonnie R. Welch, Binoy Ravindran, Behrooz A. Shirazi, and Carl Bruggeman (hereafter “Ravindran”) appears beginning on page 72. The 19th IEEE Real-Time Systems Symposium was held on December 2-4, 1998, in Madrid, Spain. Exhibit 1006 is a true and correct copy of the Ravindran conference paper (pages 72-81). I obtained this copy of the conference paper from the Linda Hall Library of Science, Engineering & Technology. Specifically, the text of the Ravindran conference paper is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1006 was found within the custody of a library – a place where, if authentic, a copy of this volume of conference proceedings would likely be. Exhibit 1006 is a true and correct copy in a condition that creates no suspicion about authenticity.

54. The Ravindran conference paper is also available in the *IEEE Xplore*

database¹⁴ and the *ACM Digital Library*.¹⁵

55. Attached hereto as Attachment 2A is a true and correct copy of the MARC record for this volume of conference proceedings from the Linda Hall Library of Science, Engineering & Technology online catalog. The library ownership is indicated by the presence of the library's code ("LHL") in the 049 field. The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to the MARC record occurred on December 10, 1998, as shown in field 005 ("19981210"). I personally identified and retrieved the library catalog record which is Attachment 2A.

56. Based on finding a print copy of Exhibit 1006 in the Linda Hall Library of Science, Engineering & Technology and MARC record in its online library catalog attached as Attachment 2A, it is my opinion that the volume titled *Proceedings 19th IEEE Real-Time Systems Symposium* was publicly available at the Linda Hall Library of Science, Engineering & Technology as of December 10, 1998, as shown in field 008 ("981210").

57. Attached hereto as Attachment 2B is a true and correct copy of the MARC record for the volume titled *Proceedings 19th IEEE Real-Time Systems Symposium* obtained from the OCLC bibliographic database. I personally

¹⁴ <https://ieeexplore.ieee.org/document/739732>

¹⁵ <https://dl.acm.org/doi/10.5555/827270.829025>

identified and retrieved the MARC record that is Attachment 2B. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 2B, that library code is “LHL,” which means that the MARC record for this volume of conference proceedings was cataloged at the Linda Hall Library of Science, Engineering & Technology. As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger at the Linda Hall Library of Science, Engineering & Technology created OCLC record number 40469087 on December 10, 1998, (“981210”) as shown in the field 008 (“Date entered on file”). The library continues to update and enhance this MARC record to meet current cataloging rules. The most recent enhancement to the MARC record occurred on October 19, 2022, as shown in field 005 (“20221019”).

58. Attachment 2B further includes an entry in field 050 (“QA76.54 \$b .R43 1998”)—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system) and an entry in field 082 (“004.33”)—as described above, a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 2B also shows that Exhibit 1006 was catalogued with a descriptor term reading “Real-time data processing \$v Congresses” (see Attachment 2C, Library of Congress subject heading sh2008110528) in the 650 field. Thus, as of its cataloging, the publication corresponding to the MARC record

attached hereto as Attachment 2B was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082 entry, and the field 650 entry. Further, as of December 10, 1998, the MARC record attached hereto as Attachment 2B was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that acquired the volume of conference proceedings, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

59. WorldCat indicates that the volume titled *Proceedings 19th IEEE Real-Time Systems Symposium* as cataloged at the Linda Hall Library of Science, Engineering & Technology is currently available from 68 libraries.¹⁶ In view of the above, the volume titled *Proceedings 19th IEEE Real-Time Systems Symposium* was publicly available by December 10, 1998, because by that date it had been received, cataloged, and indexed at the Linda Hall Library of Science, Engineering & Technology and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1006 was published and publicly accessible by December 10, 1998.

¹⁶ <https://search.worldcat.org/title/40469087>

VI. SUMMARY OF OPINIONS

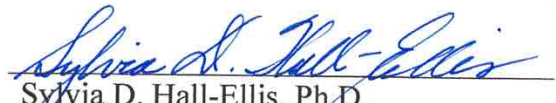
60. In view of the foregoing, it is my opinion that the publications described above were publicly available no later than the corresponding date listed in the table below:

Exhibit	Publication	Publicly Available By
1005	Welch, Lonnie R., Binoy Ravindran, Paul V. Werme, Michael W. Masters, Behrooz A. Shirazi, Prashant A. Shirolkar, Robert D. Harrison, Wayne Mills, Tuy Do, Judy Lafratta, Shafqat M. Anwar, Steve Sharp, Terry Sergeant, George Bilowus, Mark Swick, Jim Hoppel, and Joe Caruso. "Distributed, Scalable, Dependable Real-Time Systems: Middleware Services and Applications." <i>Proceedings: 13th International Parallel Processing Symposium & 10th Symposium on Parallel and Distributed Processing</i> (pp. 297-301). IPPS/SPDP 1999. Los Alamitos, CA: IEEE Computer Society, 1999 ("Welch").	December 16, 1999
1006	Welch, Lonnie R., Binoy Ravindran, Behrooz A. Shirazi, and Carl Bruggeman. "Specification and Modeling of Dynamic, Distributed Real-time Systems." <i>Proceedings 19th IEEE Real-Time Systems Symposium</i> (pp. 72-81). Los Alamitos, CA: IEEE Computer Society, 1998 ("Ravindran").	December 10, 1998

61. In signing this Declaration, I recognize that the Declaration will be filed as evidence in a case before the Patent Trial and Appeal Board of the United States Patent and Trademark Office. I also recognize that I may be subject to cross-examination in the case and that cross-examination will take place within the United States. If cross-examination is required of me, I will appear for cross-examination within the United States during the time allotted for cross-examination.

62. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

December 19, 2024


Sylvia D. Hall-Ellis, Ph.D.

Attachment 1A

leader 01843nam a2200445la 4500
 001 993510933405961
 005 20020118022800.0
 008 010404s2000 njua b 101 0 eng d
 010 ##\$a 79640961
 020 ##\$a9780780366381
 020 ##\$a0780366387
 020 ##\$a9780780366398 (casebound)
 020 ##\$a0780366395 (casebound)
 020 ##\$a9780780366404 (microfiche)
 020 ##\$a0780366409 (microfiche)
 035 ##\$a(OCOLC)46658722
 035 ##\$9479884
 035 ##\$a(MoKL)351093-lhalldb
 035 ##\$a(lhalldb)351093-lhalldb
 040 ##\$aLHL \$cLHL
 049 ##\$aLHLA
 090 ##\$aTJ217 \$b.l17 2000
 111 2#\$aIEEE Conference on Decision & Control \$(39th : \$d2000 : \$cSydney, N.S.W.)
 245 10\$aProceedings of the 39th IEEE Conference on Decision and Control : \$bDecember 12-
 15, 2000 ; Sydney Convention and Exhibition Centre, Sydney, Australia / \$cIEEE Control Systems
 Society.
 246 31\$aDecision and control
 246 31\$a39th IEEE Conference on Decision and Control
 246 31\$aCDC 2000
 260 ##\$aPiscataway, New Jersey : \$bIEEE, \$cc2000.
 300 ##\$a5 v. : \$bill. ; \$c28 cm.
 500 ##\$a"IEEE Catalog Number: 00CH37187"--verso of T.p.
 500 ##\$a"Cooperating Organizations, Society for Industrial and Applied Mathematics (SIAM),
 Institute for Operations Research and the Management Sciences (INFORMS)"--p. [iii].
 504 ##\$aIncludes bibliographic references and author index.
 530 ##\$aAlso available via the World Wide Web.
 650 #0\$aAdaptive control systems \$vCongresses
 650 #0\$aDecision making \$xMathematical models \$vCongresses
 650 #0\$aSystem analysis \$vCongresses
 650 #0\$aFeedback control systems. \$vCongresses.
 710 2#\$aIEEE Control Systems Society
 710 2#\$aSociety for Industrial and Applied Mathematics
 710 2#\$aInstitute for Operations Research and the Management Sciences
 948 ##\$aLTI 09/01/2008
 994 ##\$aE0 \$bLHL

Attachment 1B

Bibliographic Record - OCLC Number: 46658722

LDR Record Status 'c' - Corrected or revised
 Type of Record 'a' - Language material
 Bibliographic Level 'm' - Monograph/Item
 Type of Control ' ' - No specified type of control
 Encoding Level ' ' - Full level
 Descriptive Cataloging Form 'a' - AACR2

001 46658722
 005 20230104225318.3
 008 Date Entered on File '010404'
 Type of Date/Publication Status 's' - Single date
 Date1/Beginning Date of Publication '2000'
 Date2/Ending Date of Publication ' '
 Place of Publication, Production, or Execution Code 'nju' - New Jersey
 Illustrations 'a '
 Target Audience ' ' - Unknown or unspecified
 Form of Item ' ' - None of the following
 Nature of Contents Code 'b '
 Government Publication ' ' - Not a government publication
 Conference Publication '1' - Conference publication
 Festschrift '0' - Not a festschrift
 Index '1' - Index present
 Literary Form '0' - Not fiction
 Biography ' ' - No biographical material
 Language Code 'eng' - English
 Modified Record ' ' - Record is not modified
 Cataloging Source Code 'd' - Other

010 79640961
 040 LHL \$b eng \$c LHL \$d E9X \$d OCLCQ \$d BAKER \$d B9K \$d OCLCF \$d OCLCQ \$d OCLC
 O \$d OCLCQ \$d OCL \$d OCLCO \$d OCLCA \$d OCLCQ \$d OCLCO \$d OCLCQ
 020 0780366387
 020 9780780366381
 020 0780366395 \$q (casebound)
 020 9780780366398 \$q (casebound)
 020 0780366409 \$q (microfiche)
 020 9780780366404 \$q (microfiche)
 050 4 TJ217 \$b .I17 2000
 111 2 IEEE Conference on Decision & Control \$n (39th : \$d 2000 : \$c Sydney, N.S.W.)
 245 1 0 Proceedings of the 39th IEEE Conference on Decision and Control : \$b December 12-15, 2000 : Sydn
 ey Convention and Exhibition Centre, Sydney, Australia / \$c IEEE Control Systems Society.
 246 3 0 Decision and control
 246 3 0 39th IEEE Conference on Decision and Control
 246 3 CDC 2000
 260 Piscataway, NJ : \$b IEEE, \$c ©2000.

300 5 volumes : **\$b** illustrations ; **\$c** 28 cm
 336 text **\$b** txt **\$2** rdacontent
 337 unmediated **\$b** n **\$2** rdamedia
 338 volume **\$b** nc **\$2** rdacarrier
 500 "IEEE Catalog Number: 00CH37187"--Title page verso
 500 "Cooperating Organizations, Society for Industrial and Applied Mathematics (SIAM), Institute for Operations Research and the Management Sciences (INFORMS)"--Page iii
 504 Includes bibliographical references and author index.
 530 Also available via the World Wide Web.
 650 0 Adaptive control systems **\$v** Congresses.
 650 0 Decision making **\$x** Mathematical models **\$v** Congresses.
 650 0 System analysis **\$v** Congresses.
 650 0 Feedback control systems **\$v** Congresses.
 650 6 Systèmes adaptatifs **\$v** Congrès.
 650 6 Prise de décision **\$x** Modèles mathématiques **\$v** Congrès.
 650 6 Analyse de systèmes **\$v** Congrès.
 650 6 Systèmes à réaction **\$v** Congrès.
 650 7 Adaptive control systems. **\$2** fast **\$0** (OCoLC)fst00796490
 650 7 Decision making **\$x** Mathematical models. **\$2** fast **\$0** (OCoLC)fst00889048
 650 7 Feedback control systems. **\$2** fast **\$0** (OCoLC)fst00922447
 650 7 System analysis. **\$2** fast **\$0** (OCoLC)fst01141385
 655 7 Conference papers and proceedings. **\$2** fast **\$0** (OCoLC)fst01423772
 710 2 IEEE Control Systems Society.
 710 2 Society for Industrial and Applied Mathematics.
 710 2 Institute for Operations Research and the Management Sciences.
 856 4 1 **\$3** IEEE Xplore **\$u** <http://ieeexplore.ieee.org/servlet/opac?punumber=7285>
 938 Baker & Taylor **\$b** BKTY **\$c** 752.00 **\$d** 756.95 **\$i** 0780366387 **\$n** 0003741284 **\$s** active

Attachment 1C

[The Library of Congress](#)>> [Go to Library of Congress Online Catalog](#)

LIBRARY OF CONGRESS AUTHORITIES



Help	New Search	Search History	Headings List	Start Over
Previous		Next		
MARC Display		Labelled Display		

LC control no.: sh2007100584

LCCN Permalink: <https://lcn.loc.gov/sh2007100584>

HEADING: Adaptive control systems Congresses

000 00498cz a2200169n 450

001 7326809

005 20110729155731.0

008 070926|| anannbabn |n ana

010 __ |a sh2007100584

035 __ |a (DLC)368504

035 __ |a (DLC)sh2007100584

040 __ |a DLC |b eng |c DLC

150 __ |a Adaptive control systems |v Congresses

667 __ |a Record generated for validation purposes.

670 __ |a Work cat.: Proceedings of the ... SICE Annual Conference, c2002- c2003

906 __ |t 8888 |u te00 |v 0

953 __ |a te00

[Previous](#) [Next](#)

Save, Print or Email Records (View Help)	
Select Download Format:	Text (Labelled Display) Press to SAVE or PRINT
Email Text (Labelled Display) to:	
	Press to SEND EMAIL

[Help](#) - [Search](#) - [Search History](#) - [Headings List](#) - [Start Over](#)

Library of Congress

URL: <https://www.loc.gov/>

Mailing Address:

101 Independence Ave,
S.E.
Washington, DC 20540

Library of Congress Authorities

URL: <http://authorities.loc.gov/>

Library of Congress Online Catalog

URL: <https://catalog.loc.gov/>Questions, comments, error reports: [Contact Us](#)

Attachment 1D

[The Library of Congress](#)>> [Go to Library of Congress Online Catalog](#)

LIBRARY OF CONGRESS AUTHORITIES



Help	New Search	Search History	Headings List	Start Over
Previous		Next		
MARC Display		Labelled Display		

LC control no.: sh2009123008

LCCN Permalink: <https://lcn.loc.gov/sh2009123008>**HEADING:** Decision making Mathematical models Congresses

000 00495cz a2200169n 450

001 8013820

005 20110729162523.0

008 090908|| anannbabn |n ana

010 __ |a sh2009123008

035 __ |a (DLC)437564

035 __ |a (DLC)sh2009123008

040 __ |a DLC |b eng |c DLC

150 __ |a Decision making |x Mathematical models |v Congresses

667 __ |a Record generated for validation purposes.

670 __ |a Work cat.: Decision theory and decision analysis, c1994

906 __ |t 8888 |u tc00 |v 0

953 __ |a tc00

[Previous](#) [Next](#)

Save, Print or Email Records (View Help)	
Select Download Format:	Text (Labelled Display) Press to SAVE or PRINT
Email Text (Labelled Display) to:	Press to SEND EMAIL

[Help](#) - [Search](#) - [Search History](#) - [Headings List](#) - [Start Over](#)**Library of Congress**URL: <https://www.loc.gov/>**Mailing Address:**101 Independence Ave,
S.E.
Washington, DC 20540**Library of Congress Authorities**URL: <http://authorities.loc.gov/>**Library of Congress Online Catalog**URL: <https://catalog.loc.gov/>Questions, comments, error reports: [Contact Us](#)

Attachment 1E

[The Library of Congress](#)>> [Go to Library of Congress Online Catalog](#)

LIBRARY OF CONGRESS AUTHORITIES

**LC control no.:** sh 85131733**LCCN Permalink:** <https://lcn.loc.gov/sh85131733>**HEADING:** System analysis

000 03797cz a2200385n 450

001 4780527

005 20190825061619.0

008 860211|| anannbabn |a ana

010 __ |a sh 85131733

035 __ |a (DLC)sh 85131733

035 __ |a (DLC)127212

040 __ |a DLC |c DLC |d DLC

053 _0 |a QA402 |b QA402.37 |c Mathematics

053 _0 |a T57.6 |b T57.97 |c Industrial engineering

150 __ |a System analysis

450 __ |a Network analysis

450 __ |a Network science

450 __ |a Network theory

450 __ |a Systems analysis

550 __ |w g |a System theory

550 __ |a Mathematical optimization

670 __ |a Work cat: Applied network science, journal website viewed June 28, 2018 |b About page (the focus of the journal is based on novel or anticipated applications of network sciences, on related techniques that may be used in applications of complex network methodologies, and on innovative modeling approaches that will enhance specific applications and lead to more widespread use of network science concepts)

670 __ |a National Research Council (U.S.). Committee on Network Science for Future Army Applications. Network science, 2005 |b page 26 (Network science is the organized knowledge of networks based on their study using the scientific method) page 28 (Finding 4-3: Network science consists of the study of network representations of physical, biological, and social phenomena leading to predictive models of these phenomena)

670 __ |a Electr. reprod./Future directions of network science: a workshop report on the emerging science of networks, September 29-30, 2016 |b page 3 (With roots in physical, information, and social sciences, network science provides a formal set of methods, tools, and theories to describe, prescribe, and predict dynamics and behavior of complex systems)

- 670** __ |a Northeastern University, Network Science Institute website, viewed July 2, 2018 |
b About page (The Network Science Institute (NetSI) is a multi-disciplinary research community supporting innovative research and training in network science)
- 670** __ |a Nature, 19 June 2018; viewed online Aug. 31, 2018 |b (Twenty years of network science: The idea that everyone in the world is connected to everyone else by just six degrees of separation was explained by the 'small-world' network model 20 years ago)
- 670** __ |a Businessdictionary online, viewed Aug. 31, 2018 |b (Systems analysis: In a broad sense, a general methodology (not a fixed set of techniques) that applies a 'systems' or 'holistic' perspective by taking all aspects of the situation into account, and by concentrating on the interactions between its different elements. It provides a framework in which judgments of the experts in different fields can be combined to determine what must be done, and what is the best way to accomplish it in light of current and future needs. Although closely associated with data or information processing, the practice of SA has been in existence since long before computers were invented)
- 670** __ |a Merriam-Webster dictionary online, viewed Aug. 31, 2018 |b (Systems analysis: the act process, or profession of studying an activity (such as a procedure, a business, or a physiological function) typically by mathematical means in order to define its goals or purposes and to discover operations and procedures for accomplishing them most efficiently)
- 680** __ |i Here are entered works on the study of systems or networks of physical, biological, and social phenomena.
- 906** __ |t 9609 |u te05 |v 0
- 910** __ |a Record saved by td04 on 10/04/2018 at 15:14:33
- 910** __ |a Record saved by td04 on 10/04/2018 at 15:08:36
- 910** __ |a Record saved by td04 on 10/04/2018 at 14:57:06
- 910** __ |a Record saved by td04 on 08/31/2018 at 12:13:15
- 953** __ |a xx00 |b ta25

◀ Previous Next ▶

Save, Print or Email Records (View Help)	
Select Download Format:	Text (Labelled Display) ▼ Press to SAVE or PRINT
Email Text (Labelled Display) to:	
	Press to SEND EMAIL

[Help](#) - [Search](#) - [Search History](#) - [Headings List](#) - [Start Over](#)



Library of Congress
 URL: <https://www.loc.gov/>

Mailing Address:
 101 Independence Ave,
 S.E.
 Washington, DC 20540

Library of Congress Authorities
 URL: <http://authorities.loc.gov/>
Library of Congress Online Catalog
 URL: <https://catalog.loc.gov/>

Questions, comments, error reports: [Contact Us](#)

Attachment 1F

[The Library of Congress](#)>> [Go to Library of Congress Online Catalog](#)

LIBRARY OF CONGRESS AUTHORITIES

**LC control no.:** sj2021061463**LCCN Permalink:** <https://lcn.loc.gov/sj2021061463>**HEADING:** Congresses and conventions

000 01667cz a2200325n 450

001 11672537

005 20210718060735.0

008 860211 | anbnbnabn |b ana

010 __ |a sj2021061463

035 __ |a (DLC)sh 85031115

035 __ |a (DLC)30040

035 __ |a (DLC)sj2021061463

040 __ |a DLC |b eng |c DLC |d DLC

053 _0 |a AS

150 __ |a Congresses and conventions

360 __ |i subdivision |a Congresses |i under subjects; and names of individual congresses

450 __ |a Colloquia

450 __ |a Colloquiums

450 __ |a Conferences

450 __ |a Conventions (Congresses)

450 __ |a International conferences, congresses and conventions

450 __ |a Symposia

450 __ |a Symposiums

550 __ |w g |a Intellectual cooperation

550 __ |a Convention facilities

667 __ |a Machine-derived authority record.

670 __ |a Random House Kernerman Webster's college dictionary, ©2010, via TheFreeDictionary.com, Aug. 29, 2013 |b (colloquium n., pl. -quiums, -quia a conference at which scholars or other experts present papers on and discuss a specific topic)

670 __ |a The American heritage dictionary of the English language, ©2000, via TheFreeDictionary.com, Aug. 29, 2013 |b (colloquium n. pl. colloquiums or colloquia 1. An informal meeting for the exchange of views. 2. An academic seminar on a broad field of study, usually led by a different lecturer at each meeting.)

670 __ |a Merriam-Webster online, Aug. 29, 2013 |b (colloquium plural colloquiums or -quia:
a usually academic meeting at which specialists deliver addresses on a topic or on
related topics and then answer questions relating to them)

670 __ |a The pros of cons, 2018.

◀ Previous Next ▶

Save, Print or Email Records (View Help)	
Select Download Format:	Text (Labelled Display) ▼ Press to SAVE or PRINT
Email Text (Labelled Display) to:	
	Press to SEND EMAIL

[Help](#) - [Search](#) - [Search History](#) - [Headings List](#) - [Start Over](#)

**Library of Congress**URL: <https://www.loc.gov/>*Mailing Address:*101 Independence Ave,
S.E.
Washington, DC 20540**Library of Congress Authorities**URL: <http://authorities.loc.gov/>**Library of Congress Online Catalog**URL: <https://catalog.loc.gov/>**Questions, comments, error reports:** [Contact Us](#)

Attachment 1G

[The Library of Congress](#)>> [Go to Library of Congress Online Catalog](#)

LIBRARY OF CONGRESS AUTHORITIES



Help	New Search	Search History	Headings List	Start Over
Previous		Next		
MARC Display		Labelled Display		

LC control no.: sh 85047649

LCCN Permalink: <https://lcn.loc.gov/sh85047649>**HEADING:** Feedback control systems

000 00916cz a2200289n 450

001 4699367

005 20120323073621.0

008 860211i| anannbabn |a ana

010 __ |a sh 85047649

035 __ |a (DLC)sh 85047649

035 __ |a (DLC)5043717

035 __ |a (DLC)sp 85047649

035 __ |a (DLC)256013

040 __ |a DLC |c DLC |d WaElC

053 _0 |a TJ216

150 __ |a Feedback control systems

450 __ |a Feedback mechanisms

450 __ |a Feedback systems

550 __ |w g |a Automatic control

550 __ |w g |a Automation

550 __ |w g |a Discrete-time systems

550 __ |a Adaptive control systems

550 __ |a Feedforward control systems

670 __ |a Corduneanu, C. Integral equations and stability of feedback systems, 1973.

670 __ |a Mayr, O. Feedback mechanisms in the historical collections of the National Museum of History and Technology, 1971.

906 __ |t 0012 |u te03 |v 0

953 __ |a xx00 |b ym80

[Previous](#) [Next](#)Save, Print or Email Records (View [Help](#))Select Download Format: [Text \(Labelled Display\)](#) [Press to SAVE or PRINT](#)

Email Text (Labelled Display) to:

Press to SEND EMAIL

[Help](#) - [Search](#) - [Search History](#) - [Headings List](#) - [Start Over](#)



Library of Congress

URL: <https://www.loc.gov/>

Mailing Address:

101 Independence Ave,
S.E.
Washington, DC 20540

Library of Congress Authorities

URL: <http://authorities.loc.gov/>

Library of Congress Online Catalog

URL: <https://catalog.loc.gov/>

Questions, comments, error reports: [Contact Us](#)

Attachment 2A

MARC Bibliographic Record

LEADER 01926cam a2200409Ia 4500

001 9948045753602122

005 20110314140912.0

008 991216t19991999caua b 101 0 eng d

020 \$a0769501435

020 \$a0769501443 (case)

020 \$a0769501451 (microfiche)

035 \$a(OCOLC)41254579

035 \$a(WU)4804575-uwmadisondb

035 \$a(EXLNZ-01UWI_NETWORK)999883282202121

040 \$aLHL\$beng\$cLHL\$dOCL\$dGZM

049 \$aGZMA

090 \$aQA76.58\$b.M47 1999

111 2_ \$aMerged International Parallel Processing Symposium & Symposium on Parallel and Distributed Processing\$(2nd :\$d1999 :\$cSan Juan, Puerto Rico)

245 10 \$a13th International Parallel Processing Symposium & 10th Symposium on Parallel and Distributed Processing :\$bIPPS/SPDP 1999 : proceedings : April 12-16, 1999, San Juan, Puerto Rico /\$csponsored by IEEE Computer Society Technical Committee on Parallel Processing in cooperation with ACM SIGARCH.

- 246 31 \$aIPPS/SPDP 1999
- 264 _1 \$aLos Alamitos, California :\$bIEEE Computer Society,\$c[1999]
- 264 _4 \$c@1999
- 300 \$axxiv, 761 pages :\$billustrations ;\$c29 cm
- 336 \$atext\$btxt\$2rdacontent
- 337 \$aunmediated\$bn\$2rdamedia
- 338 \$avolume\$bnc\$2rdacarrier
- 504 \$aIncludes bibliographic references and author index.
- 650 _0 \$aParallel processing (Electronic computers)\$vCongresses.
- 650 _0 \$aElectronic data processing\$xDistributed processing.
- 710 2_ \$aIEEE Computer Society.\$bTechnical Committee on Parallel Processing.
- 710 2_ \$aSigarch.
- 710 2_ \$aIEEE Computer Society.
- 710 2_ \$aInstitute of Electrical and Electronics Engineers.
- 711 2_ \$aIPPS/SPDP\$n(2nd :\$d1999 :\$cSan Juan, Puerto Rico)
- 711 2_ \$aInternational Parallel Processing Symposium\$n(13th :\$d1999 :\$cSan Juan, Puerto Rico)
- 711 2_ \$aIEEE Symposium on Parallel and Distributed Processing\$n(10th :\$d1999 :\$cSan Juan, Puerto Rico)
- 994 \$aE0\$bGZM

997

\$aMARCIVE

MMS IDs

Document ID:

999883282202121

Network Electronic IDs:

Network Physical IDs:

999883282202121

mms_mad_ids:

9948045753602122

Attachment 2B

Bibliographic Record - OCLC Number: 41254579

LDR	Record Status	'c' - Corrected or revised
	Type of Record	'a' - Language material
	Bibliographic Level	'm' - Monograph/Item
	Type of Control	' ' - No specified type of control
	Encoding Level	' ' - Full level
	Descriptive Cataloging Form	'a' - AACR2
001	41254579	
005	20221025141017.7	
008	Date Entered on File	'990427'
	Type of Date/Publication Status	's' - Single date
	Date1/Beginning Date of Publication	'1999'
	Date2/Ending Date of Publication	' '
	Place of Publication, Production, or Execution Code	'cau' - California
	Illustrations	'a '
	Target Audience	' ' - Unknown or unspecified
	Form of Item	' ' - None of the following
	Nature of Contents Code	'b '
	Government Publication	' ' - Not a government publication
	Conference Publication	'1' - Conference publication
	Festschrift	'0' - Not a festschrift
	Index	'1' - Index present
	Literary Form	'0' - Not fiction
	Biography	' ' - No biographical material
	Language Code	'eng' - English
	Modified Record	' ' - Record is not modified
	Cataloging Source Code	'd' - Other
040	LHL \$b eng \$c LHL \$d OCL \$d E9X \$d OCLCQ \$d BAKER \$d YDXCP \$d OCLCQ \$d OCL CF \$d OCLCQ \$d OCLCO \$d OCL \$d OCLCO \$d OCLCQ \$d OTZ \$d DKU \$d OCLCO \$d OCLCQ	
020	0769501435	
020	9780769501437	
020	0769501443 \$q (case)	
020	9780769501444 \$q (case)	
020	0769501451 \$q (microfiche)	
020	9780769501451 \$q (microfiche)	
050	4 QA76.58 \$b .M47 1999	
111	2 Merged International Parallel Processing Symposium & Symposium on Parallel and Distributed Processing \$n (2nd : \$d 1999 : \$c San Juan, P.R.)	
245	1 0 13th International Parallel Processing Symposium & 10th Symposium on Parallel and Distributed Processing : \$b IPPS/SPDP 1999 : proceedings : April 12-16, 1999, San Juan, Puerto Rico / \$c sponsored by IEEE Computer Society Technical Committee on Parallel Processing in cooperation with ACM SIGARCH.	
246	3 0 IPPS/SPDP 1999	

- 260 Los Alamitos, Calif. : **\$b** IEEE Computer Society, **\$c** ©1999.
- 300 xxiv, 761 pages : **\$b** illustrations ; **\$c** 29 cm
- 336 text **\$b** txt **\$2** rdacontent
- 337 unmediated **\$b** n **\$2** rdamedia
- 338 volume **\$b** nc **\$2** rdacarrier
- 504 Includes bibliographical references and author index.
- 530 Also available via the World Wide Web with additional title: Parallel and Distributed Processing, 1999, 13th International and 10th Symposium on Parallel and Distributed Processing, 1999, 1999 IPPS/SPDP, proceedings.
- 520 Contains 113 papers presented at the April 1999 meetings. Arrangement is in 21 sections covering such topics as: algorithmic paradigms and primitives; latency tolerance and performance modeling; communication, run-time systems; scalable computing; communication and protocols for clusters; communication libraries; routing and broadcasting; miscellaneous architecture; advanced software for applications support; scientific engineering systems; signal processing; data mining and databases; and biological and discrete systems. Also included are abstracts of the panel discussions and the two keynote addresses from each of the symposiums. No subject index. Annotation copyrighted by Book News, Inc., Portland, OR.
- 505 0 0 **\$t** Changing Nature of Concurrent Computing Research / **\$r** K.M. Chandy -- **\$t** Characterization of Data-Accumulating Algorithms / **\$r** S. Bruda and S. Akl -- **\$t** Prefix Computations on Symmetric Multiprocessors / **\$r** D. Helman and J. JaJa -- **\$t** Reducing I/O Complexity by Simulating Coarse Grained Parallel Algorithms / **\$r** F. Dehne, W. Dittrich and D. Hutchinson / **\$r** [and others] -- **\$t** Lower Bounds on the Loading of Degree-2 Multiple Bus Networks for Binary-Tree Algorithms / **\$r** H. Dharmasena and R. Vaidyanathan -- **\$t** Time-Optimal Solution for the Path Cover Problem on Cographs / **\$r** K. Nakano, S. Olariu and A. Zomaya -- **\$t** Parallel Matrix Multiplication on a Linear Array with a Reconfigurable Pipelined Bus System / **\$r** K. Li and V. Pan -- **\$t** Improving Collective I/O Performance using Threads / **\$r** P. Dickens and R. Thakur -- **\$t** Linear Aggressive Prefetching: A Way to Increase the Performance of Cooperative Caches / **\$r** T. Cortes and J. Labarta -- **\$t** Hiding Communication Latency in Reconfigurable Message-Passing Environments / **\$r** A. Afsahi and N. Dimopoulos -- **\$t** Impact of Memory Hierarchies on Cluster Computing / **\$r** X. Du and X. Zhang -- **\$t** Factorial Performance Evaluation for Hierarchical Memory Systems / **\$r** X. Sun, D. He and K. Cameron / **\$r** [and others] -- **\$t** Performance Model of Speculative Prefetching in Distributed Information Systems / **\$r** N. Tuah, M. Kumar and S. Venkatesh -- **\$t** Run-Time Selection of Block Size in Pipelined Parallel Programs / **\$r** D. Lowenthal and M. James -- **\$t** Reducing Parallel Overheads through Dynamic Serialization / **\$r** M. Voss and R. Eigenmann -- **\$t** Using Channels for Multimedia Communication / **\$r** D. May and H. Muller -- **\$t** Paderborn University BSP (PUB) Library -- Design, Implementation and Performance / **\$r** O. Bonorden, B. Juurlink and I. von Otte / **\$r** [and others] -- **\$t** Capabilities based Communication Model for High-Performance Distributed Applications: The Open HPC++ Approach / **\$r** S. Diwan and D. Gannon
- 505 8 0 **\$t** Average-Case Analysis of Isospeed Scalability of Parallel Computations on Multiprocessors / **\$r** K. Li and X. Sun -- **\$t** Fully-Scalable Fault-Tolerant Simulations for BSP and CGM / **\$r** S. Kim and K. Park -- **\$t** Coarse Grained Parallel Maximum Matching in Convex Bipartite Graphs / **\$r** J. Bose, A. Chan and F. Dehne / **\$r** [and others] -- **\$t** Experimental Evaluation of QSM, a Simple Shared-Memory Model / **\$r** B. Grayson, M. Dahlin and V. Ramachandran -- **\$t** Consistent History Link Connectivity Protocol / **\$r** P. LeMahieu and J. Bruck -- **\$t** Performance Evaluation of the ServerNet under Self-Similar Traffic / **\$r** D. Avresky, V. Shurbanov and R. Horst / **\$r** [and others] -- **\$t** Low-Latency Message Passing on Workstation Clusters using SCRAMNet / **\$r** V. Moorthy, M. Jacunski and M. Pillai / **\$r** [and others] -- **\$t** Cashmere-VLM: Remote Memory Paging for Software Distributed Shared Memory / **\$r** S. Dwarkadas, N. Hardavellas and L. Kontothanassis / **\$r** [and others] -- **\$t** Computational Co-op: Gathering Clusters into a Metacomputer / **\$r** W. Cirne and K. Marzullo -- **\$t** Reducing System Overheads in Home-based Software DSMs / **\$r** W. Hu, W. Shi and Z. Tang -- **\$t** Exploiting Global Structure for Performance on Clusters / **\$r** S. Donaldson, J. Hill and D. Skillicorn -- **\$t** Implementing Efficient MPI on LAPI for IBM RS/6000 SP Systems: Experiences and Performance Evaluation / **\$r**

- M. Banikazemi, R. Govindaraju and R. Blackmore / **\$r** [and others] -- **\$t** PM-PVM: A Portable Multi threaded PVM / **\$r** C. Santos and J. Aude -- **\$t** tmPVM -- Task Migratable PVM / **\$r** C. Tan, W. Wong and C. Yuen -- **\$t** Ubiquitous Message Passing Interface Implementation in Java: jmp_i / **\$r** K. Dincer -- **\$t** Annapolis Micro Systems, Inc.: FPGA-based Architecture for High Speed Serial Processing / **\$r** P. Kowalewski and R. Donaldson -- **\$t** On-Demand Multicast Routing Scheme and Its Algorithms / **\$r** T. Su and J. Wang -- **\$t** Fault-Tolerant Routing Algorithms for Hypercube Networks / **\$r** K. Kaneko and H. Ito -- **\$t** Dynamic Interval Routing on Asynchronous Rings / **\$r** D. Krizanc, F. Luccio and R. Raman
- 505 8 0 **\$t** Optimally Scaling Permutation Routing on Reconfigurable Linear Arrays with Optical Buses / **\$r** J. Trahan, A. Bourgeois and Y. Pan / **\$r** [and others] -- **\$t** Comparison of Router Architectures for Virtual Cut-Through and Wormhole Switching in a NOW Environment / **\$r** J. Duato, A. Robles and F. Sila / **\$r** [and others] -- **\$t** Dynamically Scheduling the Trace Produced during Program Execution into VLIW Instructions / **\$r** A. de Souza and P. Rounce -- **\$t** Segment Directory Enhancing the Limited Directory Cache Coherence Schemes / **\$r** J. Choi and K. Park -- **\$t** Shuffle Memory System / **\$r** K. Kim -- **\$t** Efficient VLSI Architecture Parallel Prefix Counting with Domino Logic / **\$r** R. Lin, K. Nakano and S. Olariu / **\$r** [and others] -- **\$t** Performance of Coordinated and Independent Checkpointing / **\$r** L. Silva and J. Silva -- **\$t** Automatic Array Alignment in Parallel Matlab Scripts / **\$r** I. Milosavljevic and M. Jabri -- **\$t** Implementation of NAS Parallel Benchmarks in High Performance Fortran / **\$r** M. Framkin, H. Jin and J. Yan -- **\$t** Parallel Program Archetypes / **\$r** B. Massingill and K. Chandy -- **\$t** Distributed, Scalable, Dependable Real-Time Systems: Middleware Services and Applications / **\$r** L. Welch, B. Ravindran and P. Shirolkar / **\$r** [and others] -- **\$t** OpenMP for Networks of SMPs / **\$r** Y. Hu, H. Lu and A. Cox / **\$r** [and others] -- **\$t** Evolution of Multithreaded Architecture / **\$r** B. Smith -- **\$t** Oblivious Deadlock-Free Routing in a Faulty Hypercube / **\$r** J. Kim, E. Lehman and T. Leighton -- **\$t** Sparse Hypercube -- A Minimal k-Line Broadcast Graph / **\$r** S. Fujita and A. Farley -- **\$t** All-to-All Broadcast on Switch-based Clusters of Workstations / **\$r** M. Jacunski, P. Sadayappan and D. Panda -- **\$t** VBMar: Virtual Network Load Balanced Minimal Adaptive Routing / **\$r** X. Liu, T. Li and W. Gao -- **\$t** Portable Parallel Programming for the Dynamic Load Balancing of Unstructured Grid Applications / **\$r** R. Biswas, S. Das and D. Harvey / **\$r** [and others] -- **\$t** Parallel Algorithm for Singular Value Decomposition as Applied to Failure Tolerant Manipulators / **\$r** T. Braun, A. Maciejewski and H. Siegel
- 505 8 0 **\$t** Parallel Adaptive Version of the Block-based Gauss-Jordan Algorithm / **\$r** N. Melab, E. Talbi and S. Petiton -- **\$t** Sparse Matrix Block-Cyclic Redistribution / **\$r** G. Bandera and E. Zapata -- **\$t** New Approach to Parallel Dynamic Partitioning for Adaptive Unstructured Meshes / **\$r** G. Heber, R. Biswas and G. Gao -- **\$t** Object-Oriented Environment for Sparse Parallel Computation on Adaptive Grids / **\$r** S. Filippone, M. Colajanni and D. Pascucci -- **\$t** Network Status Predictor to Support Dynamic Scheduling in Network-based Computing Systems / **\$r** J. Kim and D. Lilja -- **\$t** Performance of an Infrastructure for Worldwide Parallel Computing / **\$r** T. Kwan and D. Reed -- **\$t** BRISK: A Portable and Flexible Distributed Instrumentation System / **\$r** A. Bakic, M. Mutka and D. Rover -- **\$t** Efficient Logging Algorithm for Incremental Replay of Message-Passing Applications / **\$r** F. Zambonelli and R. Netzer -- **\$t** Lazy Logging and Prefetch-based Crash Recovery in Software Distributed Shared Memory Systems / **\$r** A. Kongmunvattana and N. Tzeng -- **\$t** Visualization and Performance Prediction of Multithreaded Solaris Programs by Tracing Kernel Threads / **\$r** M. Broberg, L. Lundberg and H. Grahm -- **\$t** Mercury Computer Systems, Inc.: Delivering On Standards: Balancing Portability and Performance / **\$r** J. Robinson -- **\$t** Better Deterministic Routing on Meshes / **\$r** J. Sibeyn -- **\$t** Efficient Parallel Algorithms for Selection and Multiselection on Mesh-Connected Computers / **\$r** H. Shen -- **\$t** Constant-Time Algorithm for Medial Axis Transform on the Reconfigurable Mesh / **\$r** A. Datta -- **\$t** 2.5n-Step Sorting on nxn Meshes in the Presence of [actual symbol not reproducible] Worst Case Faults / **\$r** C. Yeh, B. Parhami and H. Lee / **\$r** [and others] -- **\$t** Recursive Grid Layout Scheme for VLSI Layout of Hierarchical Networks / **\$r** C. Yeh, B. Parhami and E. Varvarigos -- **\$t** Multi-Threaded Design and Implementation of Parallel Pipelined STAP on Parallel Computers with SMP Nodes / **\$r** W. Li, A. Choudhary and D. Weiner / **\$r** [and others]
- 505 8 0 **\$t** Parallel Phoneme Recognition Algorithm based on Continuous Hidden Markov Model / **\$r** S. Chung, M. Park and H. Kim -- **\$t** Load Adaptive Algorithms and Implementations for the 2D Discrete Wa

- velet Transform on Fine-Grain Multithreaded Architectures / **\$r** A. Khokhar, G. Heber and P. Thulasiraman / **\$r** [and others] -- **\$t** Application of Parallel Processors to Real-Time Sensor Array Processing / **\$r** D. Martinez -- **\$t** Mapping Media Streams onto a Network of Servers / **\$r** R. Luling -- **\$t** Systolic Algorithm to Process Compressed Binary Images / **\$r** F. Ercal, M. Allen and H. Feng -- **\$t** Optimizations for Language-Directed Computational Steering / **\$r** J. Vetter and K. Schwan -- **\$t** Optimization Rules for Programming with Collective Operations / **\$r** S. Gorlatch, C. Wedler and C. Lengauer -- **\$t** Flexible Clustering and Scheduling Scheme for Efficient Parallel Computation / **\$r** S. Chingchit, M. Kumar and L. Bhuyan -- **\$t** Mechanisms for Just-in-Time Allocation of Resources to Adaptive Parallel Programs / **\$r** A. Baratloo, A. Itzkovitz and Z. Kedem / **\$r** [and others] -- **\$t** Exploiting Application Tunability for Efficient, Predictable Parallel Resource Management / **\$r** F. Chang, V. Karamcheti and Z. Kedem -- **\$t** Supporting Priorities and Improving Utilization of the IBM SP Scheduler using Slack-based Backfilling / **\$r** D. Talby and D. Feitelson -- **\$t** Safe Yet Efficient Data Sharing in Wide-Area Distributed Systems / **\$r** B. Liskov -- **\$t** Guidelines for Data-Parallel Cycle-Stealing in Networks of Workstation, II: On Maximizing Guaranteed Output / **\$r** A. Rosenberg -- **\$t** LLB: A Fast and Effective Scheduling Algorithm for Distributed-Memory Systems / **\$r** A. Radulescu, A. van Gemund and H. Lin -- **\$t** Parallel Load Balancing for Problems with Good Bisectors / **\$r** S. Bischof, R. Ebner and T. Erlebach -- **\$t** Asynchronous Group Mutual Exclusion in Ring Networks / **\$r** K. Wu and Y. Joung -- **\$t** Randomized Initialization Protocols for Packet Radio Networks / **\$r** T. Hayashi, K. Nakano and S. Olariu
- 505 8 0 **\$t** Optimal Disk Allocation Strategy for Partial Match Queries on Non-Uniform Cartesian Product Files / **\$r** S. Das and M. Pinotti -- **\$t** Parallel Out-of-Core Divide and Conquer Techniques with Application to Classification Trees / **\$r** M. Sreenivas, K. AlSabti and S. Ranka -- **\$t** P-EDR: An Algorithm for Parallel Implementation of Parzen Density Estimation from Uncertain Observations / **\$r** P. Lopez de Teruel, J. Garcia and M. Acacio / **\$r** [and others] -- **\$t** Fast Multithreaded Out-of-Core Visualization Technique / **\$r** P. Sulatycke and K. Ghose -- **\$t** Design and Implementation of a Scalable Parallel System for Multidimensional Analysis and OLAP / **\$r** S. Goil and A. Choudhary -- **\$t** Infrastructure for Building Parallel Database Systems for Multi-dimensional Data / **\$r** C. Chang, R. Ferreira and A. Susman / **\$r** [and others] -- **\$t** New Memory-Saving Technique to Map System of Affine Recurrence Equations (SARE) onto Distributed Memory Systems / **\$r** A. Marongiu, P. Palazzari and C. Casaccia -- **\$t** Novel Compilation Framework for Supporting Semi-Regular Distributions in Hybrid Applications / **\$r** D. Chakrabarti and P. Banerjee -- **\$t** Compiler Analysis to Support Compiled Communication for HPF-like Programs / **\$r** X. Yuan, R. Gupta and R. Melhem -- **\$t** PARADIGM (version 2.0): A New HPF Compilation System / **\$r** P. Joisha and P. Banerjee -- **\$t** Marshaling/Demarshaling as a Compilation/Interpretation Process / **\$r** C. Queinnec -- **\$t** Virtual Computer Corporation: IP Validation for FPGA using Hardware Object Technology / **\$r** S. Casselman, J. Schewel and C. Beaumont -- **\$t** Parallel Algorithms for 3D Reconstruction of Asymmetric Objects from Electron Micrographs / **\$r** R. Lynch, D. Marinescu and H. Lin / **\$r** [and others] -- **\$t** Large Scale Simulation of Parallel Molecular Dynamics / **\$r** P. Bernard, T. Gautier and D. Trystram -- **\$t** Parallel Algorithm for Bound-Smoothing / **\$r** K. Rajan and N. Deo -- **\$t** Parallel Biological Sequence Comparison using Prefix Computations / **\$r** S. Aluru, N. Futamura and K. Mehrotra
- 505 8 0 **\$t** Large Scale Simulation of Particulate Flows / **\$r** A. Sameh and V. Sarin -- **\$t** EDD Algorithm Performance Guarantee for Periodic Hard-Real-Time Scheduling in Distributed Systems / **\$r** M. Bonuccelli and M. Clo -- **\$t** Robust Adaptive Metric for Deadline Assignment in Heterogeneous Distributed Real-Time Systems / **\$r** J. Jonsson -- **\$t** Communication Latency Hiding Parallelization of a Traffic Flow Simulation / **\$r** C. Johnston and A. Chronopoulos -- **\$t** Relaxing Causal Constraints in PDES / **\$r** N. Thondugulam, D. Rao and R. Radhakrishnan / **\$r** [and others] -- **\$t** Rate of Change Load Balancing in Distributed and Parallel Systems / **\$r** L. Campos and I. Scherson -- **\$t** Efficient Dynamic Load Balancing using the Dimension Exchange Method for Balancing of Quantized Loads on Hypercube Multiprocessors / **\$r** H. Rim, J. Jang and S. Kim -- **\$t** Cascaded Execution: Speeding Up Unparallelized Execution on Shared-Memory Multiprocessors / **\$r** R. Anderson, T. Nguyen and J. Zahorjan -- **\$t** COWL: Copy-On-Write for Logic Programs / **\$r** V. Santos Costa -- **\$t** Dynamic Grain-Size Adaptation on Object Oriented Parallel Programming -- The SCOOPP Approach / **\$r** J. Sobral and A. Proenca -- **\$t** Implementation of a Virtual Time Synchronizer for Distributed Databases / **\$r** A. Boukerche, T. Le Master and S. Das / **\$r** [and others] -- **\$t** Graph based Framework to Detect Optimal Memory Layout

s for Improving Data Locality / **\$r** M. Kandemir, A. Choudhary and J. Ramanujam / **\$r** [and others] -
- **\$t** Hyperplane Partitioning: An Approach to Global Data Partitioning for Distributed Memory Machi
nes / **\$r** S. Prakash and Y. Srikant.

650 0 Parallel processing (Electronic computers) **\$v** Congresses.
650 0 Electronic data processing **\$x** Distributed processing **\$v** Congresses.
650 6 Parallélisme (Informatique) **\$v** Congrès.
650 6 Traitement réparti **\$v** Congrès.
650 7 Electronic data processing **\$x** Distributed processing. **\$2** fast **\$0** (OCoLC)fst00906987
650 7 Parallel processing (Electronic computers) **\$2** fast **\$0** (OCoLC)fst01052928
655 7 Conference papers and proceedings. **\$2** fast **\$0** (OCoLC)fst01423772
710 2 IEEE Computer Society. **\$b** Technical Committee on Parallel Processing.
710 2 Sigarch.
710 2 IEEE Computer Society.
711 2 IPPS/SPDP (Conference) **\$n** (2nd : **\$d** 1999 : **\$c** San Juan, Puerto Rico)
711 2 International Parallel Processing Symposium **\$n** (13th : **\$d** 1999 : **\$c** San Juan, P.R.)
711 2 IEEE Symposium on Parallel and Distributed Processing **\$n** (10th : **\$d** 1999 : **\$c** San Juan, P.R.)
740 0 Parallel and Distributed Processing, 1999, 13th International and 10th Symposium on Parallel and Dist
ributed Processing, 1999, 1999 IPPS/SPDP, proceedings.

776 0 8 **\$i** Online version: **\$a** Merged International Parallel Processing Symposium & Symposium on Paralle
l and Distributed Processing (2nd : 1999 : San Juan, P.R.). **\$t** 13th International Parallel Processing Sy
mposium & 10th Symposium on Parallel and Distributed Processing. **\$d** Los Alamitos, Calif. : IEEE
Computer Society, ©1999 **\$w** (OCoLC)761996461

856 4 1 **\$3** IEEE Xplore **\$u** <http://ieeexplore.ieee.org/servlet/opac?punumber=6155>
938 Baker & Taylor **\$b** BKTY **\$c** 165.00 **\$d** 169.95 **\$i** 0769501435 **\$n** 0003318177 **\$s** active
938 YBP Library Services **\$b** YANK **\$n** 1592531
029 1 AU@ **\$b** 000022200183

Attachment 2C

[The Library of Congress](#)>> [Go to Library of Congress Online Catalog](#)

LIBRARY OF CONGRESS AUTHORITIES

[Help](#) [New Search](#) [Search History](#) [Headings List](#) [Start Over](#)[◀ Previous](#) [Next ▶](#)[MARC Display](#)[Labelled Display](#)

LC control no.: sh2008108874

LCCN Permalink: <https://lcn.loc.gov/sh2008108874>**HEADING:** Parallel processing (Electronic computers) Congresses

000 00489cz a2200169n 450

001 7461258

005 20110729160614.0

008 080305|| anannbabn |n ana

010 __ |a sh2008108874

035 __ |a (DLC)385036

035 __ |a (DLC)sh2008108874

040 __ |a DLC |b eng |c DLC

150 __ |a Parallel processing (Electronic computers) |v Congresses

667 __ |a Record generated for validation purposes.

670 __ |a Work cat.: Applied parallel computing, 2001

906 __ |t 8888 |u te00 |v 0

953 __ |a te00

[◀ Previous](#) [Next ▶](#)**Save, Print or Email Records (View [Help](#))**Select Download Format: [Text \(Labelled Display\)](#) [Press to SAVE or PRINT](#)

Email Text (Labelled Display) to:

[Press to SEND EMAIL](#)[Help](#) - [Search](#) - [Search History](#) - [Headings List](#) - [Start Over](#)**Library of Congress**URL: <https://www.loc.gov/>**Mailing Address:**101 Independence Ave,
S.E.
Washington, DC 20540**Library of Congress Authorities**URL: <http://authorities.loc.gov/>**Library of Congress Online Catalog**URL: <https://catalog.loc.gov/>Questions, comments, error reports: [Contact Us](#)

Attachment 2D

[The Library of Congress](#)>> [Go to Library of Congress Online Catalog](#)

LIBRARY OF CONGRESS AUTHORITIES



Help	New Search	Search History	Headings List	Start Over
Previous		Next		
MARC Display		Labelled Display		

LC control no.: sh2008102927

LCCN Permalink: <https://lcn.loc.gov/sh2008102927>**HEADING:** Electronic data processing Distributed processing Congresses

000 00509cz a2200169n 450

001 7440873

005 20110729160214.0

008 080208|| anannbabn |n ana

010 __ |a sh2008102927

035 __ |a (DLC)378493

035 __ |a (DLC)sh2008102927

040 __ |a DLC |b eng |c DLC

150 __ |a Electronic data processing |x Distributed processing |v Congresses

667 __ |a Record generated for validation purposes.

670 __ |a Work cat.: Service-oriented computing--ICSOC 2003, 2003

906 __ |t 8888 |u te00 |v 0

953 __ |a te00

[Previous](#) [Next](#)

Save, Print or Email Records (View Help)	
Select Download Format:	Text (Labelled Display) Press to SAVE or PRINT
Email Text (Labelled Display) to:	
	Press to SEND EMAIL

[Help](#) - [Search](#) - [Search History](#) - [Headings List](#) - [Start Over](#)**Library of Congress**URL: <https://www.loc.gov/>**Mailing Address:**101 Independence Ave,
S.E.
Washington, DC 20540**Library of Congress Authorities**URL: <http://authorities.loc.gov/>**Library of Congress Online Catalog**URL: <https://catalog.loc.gov/>Questions, comments, error reports: [Contact Us](#)

Attachment 3A

leader 01392nam a2200337la 4500
 001 993062783405961
 005 19981210000000.0
 008 981210s1998 caua b 101 0 eng d
 020 ##\$a9780780352438 (casebound)
 020 ##\$a0780352432 (casebound)
 020 ##\$a9780818692123 (softbound)
 020 ##\$a081869212X (softbound)
 020 ##\$a9780818692147 (microfiche)
 020 ##\$a0818692146 (microfiche)
 035 ##\$a(OCOLC)40469087
 035 ##\$9421945
 035 ##\$a(MoKL)306278-lhalldb
 035 ##\$a(lhalldb)306278-lhalldb
 040 ##\$aLHL \$cLHL
 049 ##\$aLHLA
 090 ##\$aQA76.54 \$b.R43 1998
 111 2#\$aReal-Time Systems Symposium \$n(19th : \$d1998 : \$cMadrid, Spain)
 245 14\$aThe 19th IEEE Real-Time Systems Symposium : \$bproceedings : December 2-4, 1998, Madrid, Spain / \$c-sponsored by IEEE Computer Society Technical Committee on Real-Time Systems ; the Technical University of Madrid.
 246 31\$a1998 IEEE Real-Time Systems Symposium
 246 31\$aRTSS '98
 260 ##\$aLos Alamitos, California : \$bIEEE Computer Society Press, \$cc1998.
 300 ##\$axiii, 493 p. : \$bill. ; \$c28 cm.
 500 ##\$a"[IEEE Computer Society Order Number] PR8212"--verso of T.p.
 500 ##\$a"IEEE Catalog Number 98CB36279"--verso of T.p.
 504 ##\$aIncludes bibliographic references and author index.
 650 #0\$aReal-time data processing \$vCongresses
 710 2#\$aIEEE Computer Society. \$bTechnical Committee on Real-Time Systems
 948 ##\$aLTI 09/01/2008

Attachment 3B

Bibliographic Record - OCLC Number: 40469087

LDR Record Status 'c' - Corrected or revised
 Type of Record 'a' - Language material
 Bibliographic Level 'm' - Monograph/Item
 Type of Control ' ' - No specified type of control
 Encoding Level ' ' - Full level
 Descriptive Cataloging Form 'a' - AACR2

001 40469087
 005 20221019012452.3
 008 Date Entered on File '981210'
 Type of Date/Publication Status 's' - Single date
 Date1/Beginning Date of Publication '1998'
 Date2/Ending Date of Publication ' '
 Place of Publication, Production, or Execution Code 'cau' - California
 Illustrations 'a '
 Target Audience ' ' - Unknown or unspecified
 Form of Item ' ' - None of the following
 Nature of Contents Code 'b '
 Government Publication ' ' - Not a government publication
 Conference Publication '1' - Conference publication
 Festschrift '0' - Not a festschrift
 Index '1' - Index present
 Literary Form '0' - Not fiction
 Biography ' ' - No biographical material
 Language Code 'eng' - English
 Modified Record ' ' - Record is not modified
 Cataloging Source Code 'd' - Other

040 LHL \$b eng \$c LHL \$d OCL \$d E9X \$d OCLCQ \$d BAKER \$d UPM \$d ZWZ \$d DEBBG
 \$d OCLCF \$d OCLCQ \$d OCLCO \$d UKMGB \$d OCL \$d OCLCO \$d OCLCQ \$d Q2U \$d O
 CLCO \$d OCLCQ

016 7 006465803 \$2 Uk
 020 081869212X \$q (softbound)
 020 9780818692123 \$q (softbound)
 020 0780352432 \$q (casebound)
 020 9780780352438 \$q (casebound)
 020 0818692146 \$q (microfiche)
 020 9780818692147 \$q (microfiche)

050 1 4 QA76.54 \$b .R43 1998
 082 0 4 004.33
 084 SS 1998 \$2 rvk
 084 ST 234 \$2 rvk
 111 2 Real-Time Systems Symposium \$n (19th : \$d 1998 : \$c Madrid, Spain)
 245 1 4 The 19th IEEE Real-Time Systems Symposium : \$b proceedings : December 2-4, 1998, Madrid, Spai
 n / \$c sponsored by IEEE Computer Society Technical Committee on Real-Time Systems ; the Techni

- cal University of Madrid.
- 246 3 0 1998 IEEE Real-Time Systems Symposium
- 246 1 **\$i** Also known as: **\$a** RTSS '98
- 260 Los Alamitos, Calif. : **\$b** IEEE Computer Society Press, **\$c** ©1998.
- 300 xiii, 493 pages : **\$b** illustrations ; **\$c** 28 cm
- 336 text **\$b** txt **\$2** rdacontent
- 337 unmediated **\$b** n **\$2** rdamedia
- 338 volume **\$b** nc **\$2** rdacarrier
- 500 "[IEEE Computer Society Order Number] PR8212"--Title page verso
- 500 "IEEE Catalog Number 98CB36279"--Title page verso
- 504 Includes bibliographical references and author index.
- 530 Also available via the World Wide Web with additional title: Real-Time Systems Symposium, 1998, proceedings, the 19th IEEE.
- 505 0 0 **\$t** Future Challenges in the Development of Real-Time High Performance Embedded Systems / **\$r** David Martinez -- **\$t** Integrating Multimedia Applications in Hard Real-Time Systems / **\$r** L. Abeni and G. Buttazzo -- **\$t** Isochronous Scheduling and its Application to Traffic Control / **\$r** M. Iwasaki, T. Takeuchi and M. Nakahara / **\$r** [and others] -- **\$t** Schedulability Analysis for Tasks with Static and Dynamic Offsets / **\$r** J.C. Palencia and M. Gonzalez Harbour -- **\$t** Deadline-Modification-SCAN with Maximum-Scannable-Groups for Multimedia Real-Time Disk Scheduling / **\$r** R.-I. Chang, W.-K. Shi and R.-C. Chang -- **\$t** Using Separate Algorithms to Process Read-Only Transactions in Real-Time Systems / **\$r** K.-W. Lam, S.H. Son and V.C.S. Lee / **\$r** [and others] -- **\$t** Maintaining Temporal Coherency of Virtual Data Warehouses / **\$r** R. Srinivasan, C. Liang and K. Ramamritham -- **\$t** Specification and Modeling of Dynamic, Distributed Real-Time Systems / **\$r** L.R. Welch, B. Ravindran and B. A. Shirazi / **\$r** [and others] -- **\$t** Detailed Design of Avionics Control Software / **\$r** U. Nilsson, S. Streiffert and A. Torne -- **\$t** Schedulability Analysis for Automated Implementations of Real-Time Object-Oriented Models / **\$r** M. Saksena, A. Ptak and P. Freedman / **\$r** [and others] -- **\$t** A Better Polynomial-Time Schedulability Test for Real-Time Multiframe Tasks / **\$r** C.-C.J. Han -- **\$t** A General Model for Recurring Real-Time Tasks / **\$r** S.K. Baruah -- **\$t** Statistical Rate Monotonic Scheduling / **\$r** A. Atlas and A. Bestavros -- **\$t** Testing the Results of Static Worst-Case Execution-Time Analysis / **\$r** P. Puschner and R. Nossal -- **\$t** Combining Abstract Interpretation and ILP for Microarchitecture Modelling and Program Path Analysis / **\$r** H. Theiling and C. Ferdinand -- **\$t** Compiler Optimizations for Real Time Execution of Loops on Limited Memory Embedded Systems / **\$r** S. Anantharaman and S. Pande -- **\$t** Animated Structures: Real-Time, Objects, and the UML / **\$r** Bran Selic -- **\$t** The Time-Triggered Model of Computation / **\$r** H. Kopetz -- **\$t** Synthesis Techniques for Low-Power Hard Real-Time Systems on Variable Voltage Processors / **\$r** I. Hong, G. Qu and M. Potkonjak / **\$r** [and others] -- **\$t** Task Period Selection and Schedulability in Real-Time Systems / **\$r** D. Seto, J.P. Lehoczky and L. Sha -- **\$t** Automatic Testing of Reactive Systems / **\$r** P. Raymond, X. Nicollin and N. Halbwachs / **\$r** [and others] -- **\$t** Analyzing Non-Deterministic Real-Time Systems with (max, +) Algebra / **\$r** G.P. Brat and V.K. Garg -- **\$t** Timed Test Cases Generation Based on State Characterization Technique / **\$r** A. En-Nouaary, R. Dssouli and F. Khendek / **\$r** [and others] -- **\$t** General Data Streaming / **\$r** F.W. Miller, P. Keleher and S.K. Tripathi -- **\$t** Design and Implementation of a Real-Time ATM-Based Protocol Server / **\$r** M. Borriess and H. Hartig -- **\$t** Proportional Share Scheduling of Operating System Services for Real-Time Applications / **\$r** K. Jeffay, F.D. Smith and A. Moorthy / **\$r** [and others] -- **\$t** Membership Questions for Timed and Hybrid Automata / **\$r** R. Alur, R.P. Kurshan and M. Viswanathan -- **\$t** On Checking Timed Automata for Linear Duration Invariants / **\$r** V.A. Braberman and D.V. Hung -- **\$t** Schedulability Analysis of Acyclic Processes / **\$r** M.J. Meyer and H. Wong-Toi -- **\$t** Elastic Task Model for Adaptive Rate Control / **\$r** G.C. Buttazzo, G. Lipari and L. Abeni -- **\$t** Practical Solutions for QoS-Based Resource Allocation / **\$r** R. Rajkumar, C. Lee and J.P. Lehoczky / **\$r** [and others] -- **\$t** A Dynamic Quality of Service Middleware Agent for Mediating Application Resource Usage / **\$r** S. Brandt, G. Nutt and T. Berk / **\$r** [and others] -- **\$t** From POSIX Threads to Ada to Java: A Brief History of Runtime Development for Some Real-Time Programming Languages / **\$r** Ted

Baker -- **\$t** Techniques for Software Thread Integration in Real-Time Embedded Systems / **\$r** A.G. Dean and J.P. Shen -- **\$t** A Worst Case Timing Analysis Technique for Multiple-Issue Machines / **\$r** S.-S. Lim, J.H. Han and J. Kim / **\$r** [and others] -- **\$t** Efficient Object Sharing in Quantum-Based Real-Time Systems / **\$r** J.H. Anderson, R. Jain and K. Jeffay -- **\$t** A Development Framework for Ultra-Dependable Automotive Systems Based on a Time-Triggered Architecture / **\$r** B. Hedenetz -- **\$t** Integrated Design Tools for Hard Real-Time Systems / **\$r** C. Puchol and A.K. Mok -- **\$t** Performance Measurement Using Low Perturbation and High Precision Hardware Assists / **\$r** A. Mink, W. Salamon and J.K. Hollingsworth / **\$r** [and others] -- **\$t** Real-Time Scheduling in a Generic Fault-Tolerant Architecture / **\$r** A.J. Wellings, L. Beus-Dukic and D. Powell -- **\$t** Improved Response-Time Analysis Calculations / **\$r** M. Sjodin and H. Hansson -- **\$t** Symbolic Schedulability Analysis of Real-Time Systems / **\$r** H.-H. Kwak, I. Lee and A. Philippou / **\$r** [and others] -- **\$t** Fault-Tolerant Clock Synchronization in CAN / **\$r** L. Rodrigues, M. Guimaraes and J. Rufino -- **\$t** Using Light-Weight Groups to Handle Timing Failures in Quasi-Synchronous Systems / **\$r** C. Almeida and P. Verissimo -- **\$t** Dependable System Upgrade / **\$r** L. Sha -- **\$t** Statistical Delay Guarantee of Virtual Clock / **\$r** P. Goyal and H.M. Vin -- **\$t** Realizing Services for Guaranteed-QoS Communication on a Microkernel Operating System / **\$r** A. Mehra, A. Shaikh and T. Abdelzahr / **\$r** [and others] -- **\$t** Scheduling Communication Networks Carrying Real-Time Traffic / **\$r** J.P. Lehoczky.

650 0 Real-time data processing **\$v** Congresses.
 650 6 Temps réel (Informatique) **\$v** Congrès.
 650 7 Real-time data processing. **\$2** fast **\$0** (OCoLC)fst01091219
 650 7 Temps réel (informatique) **\$x** Congrès. **\$2** ram
 655 7 Conference papers and proceedings. **\$2** fast **\$0** (OCoLC)fst01423772
 710 2 IEEE Computer Society. **\$b** Technical Committee on Real-Time Systems.
 740 0 Real-Time Systems Symposium, 1998, proceedings, the 19th IEEE.
 856 4 1 **\$3** IEEE Xplore **\$u** <http://ieeexplore.ieee.org/servlet/opac?punumber=5963>
 938 Baker & Taylor **\$b** BKTY **\$c** 135.00 **\$d** 139.95 **\$i** 081869212X **\$n** 0003273532 **\$s** active
 029 1 AU@ **\$b** 000022181667
 029 1 AU@ **\$b** 000058144352
 029 1 DEBBG **\$b** BV012414819
 029 1 ZWZ **\$b** 045940169

Attachment 3C

[The Library of Congress](#)>> [Go to Library of Congress Online Catalog](#)

LIBRARY OF CONGRESS AUTHORITIES

[Help](#) [New Search](#) [Search History](#) [Headings List](#) [Start Over](#)[◀ Previous](#) [Next ▶](#)[MARC Display](#)[Labelled Display](#)

LC control no.: sh2008110528

LCCN Permalink: <https://lcn.loc.gov/sh2008110528>

HEADING: Real-time data processing Congresses

000 00457cz a2200169n 450

001 7464327

005 20110729160724.0

008 080306|| anannbabn |n ana

010 __ |a sh2008110528

035 __ |a (DLC)386757

035 __ |a (DLC)sh2008110528

040 __ |a DLC |b eng |c DLC

150 __ |a Real-time data processing |v Congresses

667 __ |a Record generated for validation purposes.

670 __ |a Work cat.: Proceedings, 2001

906 __ |t 8888 |u te00 |v 0

953 __ |a te00

[◀ Previous](#) [Next ▶](#)**Save, Print or Email Records (View [Help](#))**Select Download Format: [Text \(Labelled Display\)](#) [Press to SAVE or PRINT](#)

Email Text (Labelled Display) to:

[Press to SEND EMAIL](#)[Help](#) - [Search](#) - [Search History](#) - [Headings List](#) - [Start Over](#)**Library of Congress**URL: <https://www.loc.gov/>**Mailing Address:**101 Independence Ave,
S.E.
Washington, DC 20540**Library of Congress Authorities**URL: <http://authorities.loc.gov/>**Library of Congress Online Catalog**URL: <https://catalog.loc.gov/>Questions, comments, error reports: [Contact Us](#)