UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

NINTENDO CO., LTD., and
NINTENDO OF AMERICA INC.,
Petitioners

v.

AMERICAN GNC CORPORATION,
Patent Owner

U.S. Patent No. 6,508,122 B1
Issue Date: January 21, 2003

Title: Microelectromechanical System for Measuring Angular Rate

DECLARATION OF INGRID HSIEH-YEE, PH.D.

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I. Introduction

I, Ingrid Hsieh-Yee, Ph.D., do hereby declare as follows:

1. I have personal knowledge of all of the matters about which I testify in this declaration.

2. I have been retained as an independent expert witness on behalf of Nintendo Co., Ltd. and Nintendo of America Inc. ("NINTENDO") for proceedings before the United States Patent and Trademark Office ("PTO") regarding the authenticity and public availability of certain prior art references in relation to US Patent No. 6,508,122.

3. I am being compensated for my work in this matter at my customary hourly rate. I am also being reimbursed for any reasonable expenses associated with my work and testimony in this investigation. My compensation is not contingent on the results of my study, the substance of my opinions, or the outcome of this matter.

A. Qualifications and Professional Experience

4. My complete qualifications and professional experience are described in my academic curriculum vitae (**Appendix A**). The following is a brief summary of my relevant qualifications and professional experience.

5. I was a professor in the Department of Library and Information Science at the Catholic University of America for 32 years and was conferred the title of

Professor Emerita in December 2022. I have experience working in an academic library, a medical library, and a legislative library. I hold a Ph.D. and a Masters in Library and Information Studies from the University of Wisconsin-Madison.

6. I am an expert on library cataloging and classification and have published two editions on this subject, *Organizing Audiovisual and Electronic Resources for Access*: *A Cataloging Guide* (2000 and 2006). I have taught a variety of courses, including Cataloging and Classification, Advanced Cataloging and Classification, Organization of Internet Resources, Organization of Information, Metadata, Digital Content Creation and Management, Internet Searches and Web Design, Information Literacy Instruction, Advanced Information Retrieval and Analysis Strategies, and The Information Professions in Society. I am familiar with metadata schema design and implementation. In my teaching I have covered the design and implementation of metadata in databases, search engines, digital repositories, digital libraries, and digital archives. I have also covered how information organization affects the discovery and access to digital resources on the Internet. My research interests cover cataloging and classification, information organization, metadata, information retrieval, information architecture, digital collections, scholarly communication, social media, user interaction with information systems, and others.

7. I am very familiar with a library cataloging encoding standard known as the "Machine-Readable Cataloging" standard, also known as "MARC," which became the national standard for sharing bibliographic data in the United States by 1971 and the international standard by 1973. MARC is the primary communications protocol for the transfer and storage of bibliographic metadata in libraries. Experts in my field reasonably rely upon MARC records when forming their opinions.

8. A MARC record consists of 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 follows. **Appendix B** is a true and correct copy of Parts VII to X of "Understanding MARC Bibliographic: Machine-Readable Cataloging" (http://www.loc.gov/marc/umb/um07to10.html) from the Library of Congress that explains commonly used MARC fields. For example, the personal author of a work is recorded in Field 100, the title is recorded in Field 245, publisher information is recorded in Field 260, the physical volume and characteristics of a publication are recorded in Field 300, and topical subjects are recorded in Fields 650.

9. I am personally familiar with many online catalogs, databases, and search engines. In preparing for this declaration, I used the following authoritative information systems to search for records:

- Google Scholar (https://scholar.google.com)
- Internet Archive (https://archive.org/)
- Online catalog of the Library of Congress (https://catalog.loc.gov/)
- Public catalog of the United States Copyright Office (https://cocatalog.loc.gov/)
- WorldCat, the free web portal (https://search.worldcat.org/)

B. Scope of This Declaration

10. I have been asked to offer an opinion on the authenticity and public availability date of the following documents:

(1) Merhav, S. (1996). Aerospace Sensor Systems and Applications, New York : Springer, **EX1008** ("*Merhav*");

(2) *Sensor Technology and Devices* (1994). Edited by Ljubisa Ristic. Boston: Artech House., **EX1010** ("*Ristic*").

11. I am rendering my expert opinion on the authenticity of the document referenced herein and on whether it was published. I will provide my opinion on when and how this document was publicly disseminated or otherwise made publicly available to the extent that persons interested and ordinarily skilled in the subject matter or art, exercising reasonable diligence, could have located and retrieved this document.

12. 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, content, substance, internal patterns, protocols followed or other distinctive characteristics of the item.

13. I am informed by counsel that a given reference is "published" if it is publicly accessible upon a satisfactory showing that such a document has been disseminated or otherwise made publicly available to the extent that persons interested and ordinarily skilled in the subject matter or art could locate it exercising reasonable diligence and obtain the document. I have also been informed by counsel that materials available in a library constitute "printed publications" if they are cataloged and indexed according to general library practices and protocols that make the references available and accessible to members of the interested public.

14. I have been informed by counsel that the '122 patent was filed on September 15, 2000, in the United States, and the earliest priority date of the '122 patent is September 16, 1999. I also understand that in the pending litigation, the Patent Owner has claimed that the '122 patent is entitled to an invention date of May 1999. I have assessed public accessibility of the documents referenced below as of this claimed priority date.

C. Personal of Ordinary Skills in the Arts

15. I am told by counsel that the subject matter of this proceeding relates to sensors for measuring movement, such as acceleration and rotational position.

16. I have been informed by counsel that a "person of ordinary skill in the art at the time of the inventions" (POSA) is a hypothetical person who is presumed to be familiar with the relevant field and its literature at the time of the inventions. This hypothetical person is also a person of ordinary creativity, capable of understanding the scientific principles and literature applicable to the pertinent field.

17. I am told by counsel that persons of ordinary skill in this subject matter or art would have possessed a bachelor's degree in electrical engineering or similar degree, with two to three years of practical experience designing and/or implementing systems that include sensors for measuring movement, such as acceleration and rotational position. I understand that a person could also have qualified as a person of ordinary skill in the art with a combination of (1) more formal education (such as a Master of Science degree) and less technical experience, or (2) less formal education and more technical or professional experience.

18. It is my opinion that such a person would have been actively engaged in learning about the field, possibly through formal instruction through the bibliographic resources. By at least January 1999, such a person would have had

access to a vast array of print and electronic resources, including at least those resources referenced below.

D. Evidence Considered in Forming My opinions

19. In the preparation of this declaration, I have reviewed the documents referenced below and any other documents I reference herein, and each of these is a type of material that experts in my field would reasonably rely upon when forming their opinions:

(1) The document referenced above in Section I.B;

(2) Bibliographic and MARC records for *Merhav*, available at https://lccn.loc.gov/95051161 from the online catalog of the Library of Congress, **Appendix 1008A**;

(3) Copyright registration record for *Merhav*, available at https://cocatalog.loc.gov/cgi-bin/Pwebrecon.cgi?v1=2&ti=1,2&Search%5FArg=Aerospace%20sensor%20systems%20and%20applications&Search%5FCode=TALL&CNT=25&PID=x3k97Y1ALJ2z0Elx_MbnzHG3WPUUF&SEQ=20240304181936&SID=1 from the public catalog of the United States Copyright Office, **Appendix 1008B**;

(4) Citations to *Merhav*, obtained from Google Scholar, **Appendix**

1008C;

(5) Bibliographic and MARC records for *Ristic*, available at https://lccn.loc.gov/94002361 from the online catalog of the Library of Congress, **Appendix 1010A**;

(6) Copyright registration record for *Ristic*, available at https://cocatalog.loc.gov/cgi-bin/Pwebrecon.cgi?Search_Arg=Sensor+Technology+and+Devices+&Search_Code=TALL&PID=eAvR84VulkMtKrmUcLoA6dK068Zx-&SEQ=20240307110421&CNT=25&HIST=1 from the public catalog of the United States Copyright Office, **Appendix 1010B**;

(7) Citations to *Ristic*, obtained from Google Scholar, **Appendix 1010C**;

(8) WebCat archived on May 24, 1997, by Internet Archive, available at https://web.archive.org/web/19970524163247/http://library.usask.ca/hywebcat/; WebCat Government Libraries archived on May 24, 1997, by Internet Archive, available at

https://web.archive.org/web/19970524205355/http://library.usask.ca/hywebcat/libtypes/G.html; and Library of Congress online catalog on the Web archived on January 20, 1998, by Internet Archive and available at https://web.archive.org/web/19980120124127/http://lcweb.loc.gov/catalog/, **Appendix 1010D**.

II. Authenticity and Public Availability of Merhav (EX1008)

A. Authentication

20. **Exhibit 1008** is a true and correct copy of portions of *Aerospace Sensor Systems and Applications*, ("*Merhav*"), by Shmuel Merhav and published by Springer in 1996, that I obtained from Library of Congress. When I began researching this work, I searched WorldCat for records, and a record at https://search.worldcat.org/title/33863049 showed Library of Congress was one of the holding libraries. After verifying the holdings information in their online catalog, I obtained a copy of portions of *Merhav* through a document delivery service. This library copy is presented as **EX1008** in this declaration.

21. Page 1 shows the front cover, spine, and back cover. The front cover shows the title, author, and publisher; the spine shows a call number of "TL 695 .M47 1996" and the back cover shows an ISBN (International Standard Book

Number) of "0-387-94605-5" and a Library of Congress barcode. Page 2 is the half title page. Page 3 is the title page that shows the same information as the cover and indicates the book includes 193 figures. Page 4 is the copyright page that shows a Library of Congress Cataloging-in-Publication record, a "1996" copyright date with Springer-Verlag New York, Inc. as the copyright holder, and the ISBN for this book. This page carries a date stamp of "Library of Congress FEB 8 1996 CIP" and a hand-written call number. Pages 5 to 10 are the table of contents that shows *Merhav* includes nine chapters, each with its references, three appendices, and an index. Pages 11 to 13 (internal pages [377] to 381) are a portion of Chapter 8 The Ring Laser Gyro.

22. I have closely examined **EX1008** and found it to contain nothing that raises suspicion of its authenticity. Specifically, the portion of Chapter 8 in **EX1008** is not missing any intermediate pages, the text on each page appears to flow seamlessly from one page to the next, and there are no visible alterations to the document. In addition, **EX1008** is a published work in the custody of a national library. It is therefore my opinion that **EX1008** is from a published book that is authentic and publicly available.

B. Library of Congress Records

23. Appendix 1008A is a true and correct copy of the bibliographic and

MARC records for *Merhav* that I obtained from the online catalog of the Library of Congress. I personally located, identified, and obtained these records. They are the type of record experts in my field would rely upon when forming their opinions.

24. Pages 1 and 2 are the bibliographic record that shows the author, title, publisher, and copyright date. The record also shows the book's ISBN and LCCN (Library of Congress Control Number). These bibliographic details match the information presented in **EX1008**, confirming this record represents *Merhav*. The "Item Available" area shows the book's call number is "TL695 .M4 1996," Copy 1 is at the Library of Congress and Copy 2 is stored offsite. Users can request access to this work at the Jefferson or Adams Building Reading rooms, and the Status of this work is "Not Charged" (meaning available for user request).

25. Page 3 and 4 are the MARC record that shows the date of record creation and revision. The first six digits of Field 008 show the MARC record was created on "951201" (*i.e.*, December 1, 1995), and the "s1996" code following this creation date indicates this work has a single publication date of 1996. Field 955 records local cataloging activities, and the last note "CIP ver … 03-12-96" indicates Library of Congress catalogers verified the CIP record on March 12, 1996, after the published book was received. Subfield "a" of Field 040 shows "DLC" (*i.e.*, Library of Congress) created the MARC record. Fields 008, 955 and 040 inform my opinion

that Library of Congress created a Cataloging-in-Publication MARC record for *Merhav* on December 1, 1995, before the book was published. After the library received a copy from the publisher on February 8, 1996 (as indicated by the date stamp on **EX1008**), Library of Congress catalogers used it on March 12, 1996, to verify the CIP record created in December 1995. This MARC record informs my opinion that *Merhav* became discoverable on December 1, 1995, when the CIP record was created. The record was verified on March 12, 1996. A common practice of academic and research libraries is to process a newly cataloged book promptly for public access, usually within a week after the cataloging work is completed. Based on my experience with the collections of Library of Congress, it can take one to three months for a newly cataloged book to become publicly accessible. It is therefore my opinion that the physical copy of *Merhav*, after processing, would have become publicly accessible no later than June 12, 1996.

26. Field 010 of the MARC record (**Appendix 1008A**) shows the Library of Congress Control Number assigned to *Merhav* and Field 020 shows the book's ISBN. Field 100 shows *Merhav* as the author, Field 245 shows the title and author statement, Field 260 shows the publisher information and copyright date ("c1996"), Field 300 shows the physical description, and Field 504 shows the book contains bibliographical references and an index.

27. Subjects are represented in Field 050 by a Library of Congress Classification (LCC) number of "TL695" that represents general works on "Electronic aids to navigation. Radio. Radar. Television" and in Field 082 by a Dewey Decimal Classification (DDC) number of "629.135" that represents "Aircraft instrumentation (Avionics)." Subjects are also represented in Fields 650 by four Library of Congress subject headings: Avionics, Detectors, Aeronautical instruments, and Space vehicles |x Guidance systems ("|x" indicates a topical subdivision). These subject representations support users to conduct subject searches to discover this book.

28. This MARC record (**Appendix 1008A**) shows that *Merhav* was published with a 1996 copyright date. This work became discoverable on December 1, 1995, when the CIP record was created. After the book was published, the CIP record was verified on March 12, 1996. Users would have been able to conduct subject searches by the LCC number, DDC number and Library of Congress subject headings in the MARC record to discover this book. They would also have been able to search for this book by the LCCN, ISBN, title, and author. This MARC record informs my opinion that *Merhav* became discoverable in the online catalog of the Library of Congress on December 1, 1995. After the CIP record was verified on March 12, 1996, the physical copy of *Merhav*, after processing, would have become

publicly accessible no later than June 12, 1996.

C. Copyright Registration Record

29. **Appendix 1008B** is a true and correct copy of the copyright registration record for *Merhav*. I personally located, identified, and obtained this record from the public catalog of the United States Copyright Office. This is the type of record experts in my field would reasonably rely upon when forming their opinions.

30. **Appendix 1008B** shows I searched the public catalog of the Copyright Office by the book title for records. The title, imprint, and copyright claimant match the information presented in the Library of Congress copy (**EX1008**) and the Library of Congress records (**Appendix 1008A**). The "Date of Publication" field shows this book was published on "1996-02-02" (*i.e.*, February 2, 1996), and the "Registration Number / Date" field shows "1996-02-26" (*i.e.*, February 26, 1996) as the copyright registration date.

D. Usage Record

31. Actual usage of a publication is reflected by other publications that make reference to it. I used Google Scholar to review citations to *Merhav* and found seven citations were published before January 1999. **Appendix 1008C** is a list I compiled to show that at least five citations appeared before 1999, and the earliest citation appeared in 1997.

E. Summary of My Opinion on *Merhav*

32. **EX1008** is true and authentic because the portions of the book show nothing that raise suspicion of their authenticity. The book is in the custody of a national library. Bibliographic and MARC records of the Library of Congress (**Appendix 1008A**) show that Library of Congress created a CIP record for *Merhav* on December 1, 1995, before the book was published, making this book discoverable in their catalog from that date on. The copyright registration record (**Appendix 1008B**) shows *Merhav* was published on February 2, 1996, and registered with the United States Copyright Office on February 26, 1996. After the published work was received by Library of Congress, the catalogers verified the CIP record on March 12, 1996. After processing, the physical copy of *Merhav* would have become publicly accessible by June 12, 1996. Citation history shows the earliest citation to *Merhav* appeared in 1997.

III. Authenticity and Public Availability of Ristic (EX1010)

A. Authentication

33. **Exhibit 1010** is a true and correct copy of portions of *Sensor Technology and Devices*, ("*Ristic*"), edited by Ljubisa Ristic and published by Artech House in 1994, that I obtained from Library of Congress. When I began researching this work, I searched WorldCat for records, and a record at

https://search.worldcat.org/title/29702531 showed Library of Congress was one of the holding libraries. After verifying the holdings information in their online catalog, I obtained a copy of portions of *Ristic* through a document delivery service. This library copy is presented as **EX1010** in this declaration.

34. Page 1 shows the front cover, spine, and back cover. The front cover shows the title and editor, the spine shows a call number of "TK 7868 .I58 S46 1994" and the back cover shows the publisher information, an ISBN (International Standard Book Number) of "0-89006-52-2" and a Library of Congress barcode. Page 3 is the half title page. Page 4 is the title page that shows the title, editor, publisher and publisher locations. Page 5 is the copyright page that shows a Library of Congress Cataloging-in-Publication record, a "1994" copyright date with ARTECH HOUSE, INC. as the copyright holder, and the ISBN for this book. This page carries a date stamp of "Library of Congress MAR 14 1994 CIP" and a hand-written call number. Pages 6 to 11 are the table of contents that shows *Ristic* includes 13 chapters, each with its references, and an index.

35. The rest of **EX1010** includes pages from Chapter 1 Sensing the Real World (Pages 12 to 22 are internal pages 1 to 11); Chapter 3 Bulk Micromachining Technology (Pages 23 to 67 are internal pages 49 to 93); Chapter 4 Surface Micromachining Technology (Pages 69 to 129 are internal pages 95 to 155); Chapter

11 Sensors for the Automotive Industry (Pages 130 to 172 are internal pages 377 to 419); Chapter 12 Signal Processing for Micromachined Sensors (Pages 174 to 209 are internal pages 421 to 456); and Chapter 13 Controlled Oscillators and Their Applicability to Sensors (Pages 210 to 263 are internal pages 457 to 510).

36. I have closely examined **EX1010** and found it to contain nothing that raises suspicion of its authenticity. Specifically, the pages from Chapters 1, 3, 4, 11, 12 and 13 (**EX1010**) are not missing any intermediate pages, the text on each page appears to flow seamlessly from one page to the next, and there are no visible alterations to the document. In addition, **EX1010** is a published work in the custody of a national library. It is therefore my opinion that **EX1010** is from a published book that is authentic and publicly available.

B. Library of Congress Records

37. Appendix 1010A is a true and correct copy of the bibliographic and MARC records for *Ristic* that I obtained from the online catalog of the Library of Congress. I personally located, identified, and obtained these records. They are the type of record experts in my field would rely upon when forming their opinions.

38. Pages 1 and 2 are the bibliographic record that shows the main title, publisher, and copyright date. The record also shows the book's ISBN and LCCN (Library of Congress Control Number). These bibliographic details match the

information presented in **EX1010**, confirming this record represents *Ristic*. The "Item Available" area shows the book's call number is "TK7868.I58 S46 1994," Copy 1 is at the Library of Congress and Copy 2 is stored offsite. Users can request access to this work at the Jefferson or Adams Building Reading rooms, and the Status of this work is "Not Charged" (meaning available for user request).

39. Page 3 and 4 are the MARC record that shows the date of record creation and revision. The first six digits of Field 008 show the MARC record was created on "940110" (*i.e.*, January 10, 1994), and the "s1994" code following this creation date indicates this work has a single publication date of 1994. Field 955 records local cataloging activities, and the last note "CIP ver … 05-05-94" indicates Library of Congress catalogers verified the CIP record on May 5, 1994, after the published book was received. Subfield "a" of Field 040 shows "DLC" (*i.e.*, Library of Congress) created the MARC record. Fields 008, 955 and 040 inform my opinion that Library of Congress created a Cataloging-in-Publication MARC record for *Ristic* on January 10, 1994, before the book was published. After the library received a copy from the publisher on March 14, 1994 (as indicated by the date stamp on **EX1010**), Library of Congress catalogers used it on May 5, 1994, to verify the CIP record created in January 1994. This MARC record informs my opinion that *Ristic* became discoverable on January 10, 1994, when the CIP record was created. The

record was verified on May 5, 1994. A common practice of academic and research libraries is to process a newly cataloged book promptly for public access, usually within a week after the cataloging work is completed. Based on my experience with the collections of Library of Congress, it can take one to three months for a newly cataloged book to become publicly accessible. It is therefore my opinion that the physical copy of *Ristic*, after processing, would have become publicly accessible no later than August 5, 1994.

40. Field 010 of the MARC record (**Appendix 1010A**) shows the Library of Congress Control Number assigned to *Ristic* and Field 020 shows the book's ISBN. Field 245 shows the title and editor statement, Field 260 shows the publisher information and copyright date ("c1994"), Field 300 shows the physical description, Field 504 shows the book contains bibliographical references and an index, and Field 700 shows the editor is included to help users discover this work.

41. Subjects are represented in Field 050 by a Library of Congress Classification (LCC) number of "TK7868.I58" that represents general works on "Interface circuits" and in Field 082 by a Dewey Decimal Classification (DDC) number of "681/.2" that represents "Testing, measuring, sensing instruments." Subjects are also represented in Fields 650 by three Library of Congress subject headings: Interface circuits, Detectors |x Design and construction ("|x" indicates a

topical subdivision), and Semiconductors. These subject representations support users to conduct subject searches to discover this book.

42. This MARC record (**Appendix 1010A**) shows that *Ristic* was published with a 1994 copyright date. This work became discoverable on January 10, 1994, when the CIP record was created. After the book was published, the CIP record was verified on May 5, 1994. Users would have been able to conduct subject searches by the LCC number, DDC number and Library of Congress subject headings in the MARC record to discover this book. They would also have been able to search for this book by the LCCN, ISBN, title, and editor. This MARC record informs my opinion that *Ristic* became discoverable in the online catalog of the Library of Congress on January 10, 1994. After the CIP record was verified on May 5, 1994, the physical copy of *Ristic*, after processing, would have become publicly accessible no later than August 5, 1994.

C. Copyright Registration Record

43. **Appendix 1010B** is a true and correct copy of the copyright registration record for *Ristic*. I personally located, identified, and obtained this record from the public catalog of the United States Copyright Office. This is the type of record experts in my field would reasonably rely upon when forming their opinions.

44. **Appendix 1010B** shows I searched the public catalog of the Copyright

Office by the book title for records. The title, imprint, and copyright claimant match the information presented in the Library of Congress copy (**EX1010**) and the Library of Congress records (**Appendix 1010A**). The "Date of Publication" field shows this book was published on "1994-02-28" (*i.e.*, February 28, 1994), and the "Registration Number / Date" field shows "1994-05-26" (*i.e.*, May 26, 1994) as the copyright registration date.

D. Usage Record

45. Actual usage of a publication is reflected by other publications that make reference to it. I used Google Scholar to review citations to *Ristic* and found 13 citations were in 1994 and 1995. **Appendix 1010C** is a list I compiled to show five early citations, including the earliest citation published in August 1994.

E. Summary of My Opinion on *Ristic*

46. **EX1010** is true and authentic because the portions of the book show nothing that raise suspicion of the book's authenticity. The book is in the custody of a national library. Bibliographic and MARC records of the Library of Congress (**Appendix 1010A**) show that Library of Congress created a CIP record for *Ristic* on January 10, 1994, before the book was published, making this book discoverable in their catalog from that date on. The copyright registration record (**Appendix 1010B**) shows *Ristic* was published on February 28, 1994, and registered with the United

States Copyright Office on May 26, 1994. After the published work was received by Library of Congress, the catalogers verified the CIP record on May 5, 1994. After processing, the physical copy of *Ristic* would have become publicly accessible by August 5, 1994. Citation history shows the earliest citation to *Ristic* appeared in a conference proceedings published by IEEE in August 1994 (**Appendix 1010C**), further supporting my opinion that the physical copy of *Ristic* would have become publicly accessible no later than August 5, 1994.

IV. Internet Archive Records

47. **Appendix 1010D** is a true and correct copy of Internet Archive records about the availability of the online catalog of Library of Congress on the Internet. I personally located, identified, and obtained these archived records. They are the type of materials experts in my field would rely upon when forming their opinions.

48. Page 1 is a screen capture of "WebCats, Library Catalogues on the World Wide Web" archived on May 24, 1997 by Internet Archive. The top of page 1 is a Wayback Machine calendar that shows this website (http://library.usask.ca/hywebcat/) was archived 250 times between "24 May 1997" and "19 Jan 2024" and this particular copy was archived on May 24, 1997. Page 2 is a screen capture of a list of government library online catalogs at the WebCat website that shows this particular list was archived on May 24, 1997. Page 3 is the

PDF of this list that shows a link was included for the catalog of the Library of Congress (Washington, D.C.). Page 4 is a screen capture of a Wayback Machine calendar that shows the Library of Congress Catalogs on the Web (http://lcweb.loc.gov/catalog/) was first archived by Internet Archive on January 20, 1998. Pages 5 and 6 are the PDF of this website that instructs users on how to search the library catalog.

49. MARC standards contributed to the development of library online catalogs in the 1980s. The catalogs of the Library of Congress evolved from card catalogs to online catalog in the 1980s, and became accessible on the World Wide Web by 1997. The records in **Appendix 1010D** show that by May 24, 1997, interested users would have been able to use the WebCat website and follow the link to use the catalog at the Library of Congress; and by January 20, 1998, interested users would have been able to use the web version of the catalog of the Library of Congress to explore its collections. *Merhav* (**EX1008**) and *Ristic* (**EX1010**) became publicly discoverable and accessible at the Library of Congress before 1997. **Appendix 1010D** informs my opinion that before 1997, interested users would have been able to use the library's catalog onsite to discover *Merhav* and *Ristic*. By May 1997, interested users would have been able to access the online catalog of the Library of Congress on the Internet to discover *Merhav* and *Ristic*.

V. Conclusion

50. I hereby declare that all statements made herein on 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 made under penalty of perjury.

Date: 3-7-2024 Executed: Ingrid Hsieh-Yee

Ingrid Hsieh-Yee, Ph.D.

APPENDIX A

Ingrid Hsieh-Yee

Professor Emerita
Dept. of Library and Information Science
Catholic University of America
Washington, D.C. 20064
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Education

Ph.D. 1990. Library and Information Studies, University of Wisconsin-Madison
Minors: Sociology and Psychology

M.A. 1984. Library and Information Studies, University of Wisconsin-Madison.

M.A. 1983. Comparative Literature, University of Wisconsin-Madison.

B.A. 1980. Foreign Languages and Literature, National Taiwan University.

Work Experience

Professor, School/Dept. of Library and Information Science, Catholic University of America, 1990-2022 (Assistant Professor, 1990-1996; Associate Professor, 1997-2004; Professor 2004-2022; Professor Emerita 2022)

Co-Chair, Dept. of Library and Information Science, Catholic University of America, June 2015-August 2016.

Acting Dean, School of Library and Information Science, Catholic University of America, January 2010-June 2012.

Cataloger, Dept. of Legislative Reference Library, Annapolis, Maryland, 1989-1990.

Lecturer, School of Library and Information Studies, University of Wisconsin-Madison, 1988.

Teaching Assistant, School of Library and Information Studies, University of Wisconsin-Madison, 1986-1988.

Cataloger, Health Sciences Library, University of Wisconsin-Madison, 1984-1986.

Areas of Teaching and Research Interests

Information Organization and Access; Metadata; Cataloging & Classification; Information Architecture; Information Retrieval; Digital Collections; Social Media; Scholarly

Communication; Information Behavior; Health Informatics; Human Computer Interaction; Usability Studies

Grants & Honors

Cultural Heritage Information Management Project. IMLS grant. Amount: $498,741. Period: Aug. 2012 to July 2015. Co-PI with Dr. Youngok Choi.

D.C. Health Information Technology (HIT4): Building Capacity & Providing Access in Our Nation's Capital. Dept. of Labor H2B Training Grant. Grant amount: $4,175,500. Grant period: Nov. 2011 to Dec. 2015. Partner with the Metropolitan School of Professional Studies of the Catholic University of America, Children's National Medical Center, D.C. Department of Employment Services, Holy Cross Hospital, Howard University, Center for Urban Progress, Providence Hospital, and Sibley Memorial Hospital.

Capital Health Careers Project. Department of Labor Healthcare Sector and Other High Growth and Emerging Industries Grant. Grant amount: $4,953,999. Grant period: March 2010 – February 2013. Awarded to a group of healthcare organizations and educational institutions in Washington, D.C. Providence Health Foundation of Providence Hospital (Lead institution). Part of the grant supported the development of a Master's degree program in Information Technology with a concentration in Health Information Technology offered by the School of Library and Information Science.

The Washington D.C. School Librarians Project. IMLS grant. Grant amount: $412,660. Grant period: Aug. 2007 – June 2011. The School partnered with the District of Columbia Public Schools (DCPS) and the District of Columbia Library Association to educate and mentor school media specialists for the DCPS system. PI, Jan. 2010 to June 2011.

SIG Member of the Year, American Society for Information Science and Technology (2009).

Most Outstanding Paper of *OCLC Systems & Services* (2001).

ALISE Research Grant (2001).

Most Outstanding Paper of *OCLC Systems & Services* (2000).

Research Grant from ERIC (1999-2000).

Best Research Paper Award; Association for Library and Information Science Education (1998).

Research Grants, Catholic University of America. 1991, 1992, 1993, 1996, 1998, 1999, 2004, 2005, 2006, 2007, 2013-14.

Cooperative Faculty Research Grant, Consortium of Universities in the Washington Metropolitan Area (1993-1994).

Cooperative Research Grant, Council on Library Resources (1993-1994).

Journal of the American Society for Information Science Best Paper Award (1993).

ASIS/ISI Information Science Doctoral Dissertation Scholarship (1989).

HEA Title IIB Fellowship (Dept. of Education) (1989)

Chinese-American Librarians Association Scholarship (1987).

Beta Phi Mu (1985).

Vilas Fellowship, University of Wisconsin-Madison. 1984

Publications

Hsieh-Yee, I. (2021). Can We Trust Social Media? *Internet Reference Services Quarterly*, 1-15. Published online: 28 July, 2021. 10.1080/10875301.2021.1947433.

Bailey, T., & Hsieh-Yee, I. (2020). Combating the Sharing of False Information: History, Framework & Literacy Strategies, *Internet Reference Services Quarterly*, 24 (1-2), 9-30.

Choi, Y., and Hsieh-Yee, I. (2010). Finding Images in an OPAC: Analysis of User Queries, Subject Headings, and Description Notes. *Canadian Journal of Information and Library Science,* 34(3): 271 – 295.

Hsieh-Yee, I. (2008). Educating Cataloging Professionals in a Changing Information Environment. *Journal of Education for Library and Information Science,* 46(2): 93-106.

Vellucci, S. L., Hsieh-Yee, I., and Moen, W.E. (2007). The Metadata Education and Research Information Commons (MERIC): A Collaborative Teaching and Research Initiative. *Education for Information,* 25(3&4): 169-178.

NISO Framework for Guidelines for Building Good Digital Collections. 3rd ed. Baltimore, MD: National Information Standards Organization, 2007. Also available online: http://www.niso.org/framework/framework3.pdf (NISO Working Group members: Priscilla Caplan (chair), Grace Agnew, Murtha Baca, Tony Gill, Carl Fleischhauer, Ingrid Hsieh-Yee, Jill Koelling, and Christie Stephenson.)

Choi, Y., Hsieh-Yee, I., and Kules, B. (2007). Retrieval Effectiveness of TOC and LCSH. *Proceedings of the Joint Conference on Digital Libraries*, pp. 233-234.

Vellucci, S., and Hsieh-Yee, I. (2007). They Didn't Teach Me That in Library School! Building

a Digital Teaching Commons to Enhance Metadata Teaching, Learning and Research. *Proceedings of the National Conference of the Association of College and Research Libraries, Baltimore, MD*, pp. 26-31.

Mitchell, Vanessa, and Ingrid Hsieh-Yee. (2007). Converting Ulrich's Subject Headings to FAST Headings: A Feasibility Study. *Cataloging & Classification Quarterly,* 45(1): 59-85.

Hsieh-Yee, I., Tang, R., and Zhang, S. (2007). User Perceptions of a Federated Search System. *IEEE Technical Committee on Digital Libraries Bulletin,* Summer 3(2) (URL = http://www.ieee-tcdl.org).

Tang, R., Hsieh-Yee, I., and Zhang, S. (2007). User Perceptions of MetaLib Combined Search: An Investigation of How Users Make Sense of Federated Searching." *Internet Reference Services Quarterly,* 12(12): 211-236.

Hsieh-Yee, I., Tang, R., and Zhang, S. (2006). User Perceptions of a Federated Search System. *Proceedings of the Joint Conference on Digital Libraries*, *June 11-15, 2006, Chapel Hill*, p. 338.

Hsieh-Yee, I. (2006). *Organizing Audiovisual and Electronic Resources for Access: A Cataloging Guide*. 2nd ed. Westport, Conn.: Libraries Unlimited.

NISO A Framework of Guidance for Building Good Digital Collections. 2nd ed. Bethesda, MD: National Information Standards Organization, 2004. Framework Advisory Group: Grace Agnew, Liz Bishoff, Priscilla Caplan (Chair), Rebecca Gunther and Ingrid Hsieh-Yee.

Hsieh-Yee, I. (2004). Cataloging and Metadata Education in North American LIS Programs. *Library Resources & Technical Services,* 48(1): 59-68.

Hsieh-Yee, I. (2004). Cataloging and Metadata Education. In Gary E. Gorman (Ed.), *International Yearbook of Library and Information Management 2003: Metadata Applications and Management*, (pp.204-234). London: Facet Publishing.

Yee, P. L., Hsieh-Yee, I., Pierce, G.R., Grome, R., and Schantz, L. (2004). Self-Evaluative Intrusive Thoughts Impede Successful Searching on the Internet. *Computers in Human Behavior,* 20(1): 85-101.

Hsieh-Yee, I. (2003). Cataloging and Metadata Education: A Proposal for Preparing Cataloging Professionals of the 21st Century. A report submitted to the ALCTS-Education Task Force in response to Action Item 5.1 of the *Bibliographic control of Web Resources: A Library of Congress Action Plan*. Approved by the Association for Library Collections and Technical Services. Web version available since April 2003 at http://lcweb.loc.gov/catdir/bibcontrol/CatalogingandMetadataEducation.pdf.

Hsieh-Yee, I. (2002). Cataloging and Metadata Education: Asserting a Central Role in Information Organization. *Cataloging & Classification Quarterly* 34(½): 203-222.

Hsieh-Yee, I., and Smith, M. (2001). The CORC Experience: Survey of Founding Libraries, Part I. *OCLC Systems & Services,* 17: 133-140. (Received "The Most Outstanding Paper of OCLC Systems & Services in 2001" award.)

Hsieh-Yee, I., and Smith, M. (2001). The CORC Experience: Survey of Founding Libraries, Part II, Automated Tools and Usage. *OCLC Systems & Services,* 17: 166-177. (Received "The Most Outstanding Paper of OCLC Systems & Services in 2001" award.)

Hsieh-Yee, I. (2001). ERIC User Services: Changes and Evaluation for the Future. *Government Information Quarterly,* 18: 31-42.

Hsieh-Yee, Ingrid. (2001). Research on Web Search Behavior. *Library and Information Science Research,* 23: 167-185.

Logan, E., and Hsieh-Yee, I. (2001). Library and Information Science Education in the Nineties. *Annual Review of Information Science and Technology,* 35: 425-477.

Hsieh-Yee, I. (Ed.) (2001). *Library and Information Science Research*, 23 (2). A special issue in honor of the retirement of Douglas L. Zweizig.

Hsieh-Yee, I. (2000). *ERIC User Services: Evaluation in a Decentralized Environment*. Washington, D.C.: Dept. of Education.

Hsieh-Yee, Ingrid. (2000). *Organizing Audiovisual and Electronic Resources for Access: A Cataloging Guide*. Littleton, CO: Libraries Unlimited.

Hsieh-Yee, I. (2000). Organizing Internet Resources: Teaching Cataloging Standards and Beyond. *OCLC Systems & Services,* 16: 130-143. (Received "The Most Outstanding Paper of OCLC Systems & Services in 2000" award.)

Hsieh-Yee, I. (1998). The Retrieval Power of Selected Search Engines: How Well Do They Address General Reference Questions and Subject Questions? *Reference Librarian,* 60: 27-47.

Hsieh-Yee, I. (1998). Search Tactics of Web Users in Searching for Texts, Graphics, Known Items and Subjects: A Search Simulation Study. *Reference Librarian,* 60: 61-85. (Received the 1997 Best ALISE Research Paper Award.)

Hsieh-Yee, I. (1997). Access to OCLC and Internet Resources: LIS Educators' Views and Teaching Practices. *RQ,* 36: 569-86.

Hsieh-Yee, I. (1997). Teaching Online and CD-ROM Resources: LIS Educators' Views and Practices. *Journal of Education for Library and Information Science,* 38: 14-34.

Hsieh-Yee, I. (1996). The Cataloging Practices of Special Libraries and Their Relationship with OCLC. *Special Libraries,* 87: 10-20.

Hsieh-Yee, I. (1996). Modifying Cataloging Practice and OCLC Infrastructure for Effective Organization of Internet Resources. In *Proceedings of the OCLC Internet Cataloging Colloquium*. [Online]. Available: http://www.oclc.org/oclc/man/colloq/hsieh.htm

Hsieh-Yee, I. (1996). Student Use of Online Catalogs and Other Information Channels. *College & Research Libraries,* 57: 161-175.

Hsieh-Yee, I. (1995). Ten entries in James S. C. Hu (Ed.), *Encyclopedia of Library & Information Science*, 913, 1028-29, 1036, 1037, 1145-46, 1514, 1575, 1763-64, 2216-27, 2378-79. Taipei, Taiwan: Sino-American Publishing. (Topics include "Advanced Technology/Libraries," "Information Ethics," "Instruction on Cataloging and Classification," "Instruction on Reference Services.")

Hsieh-Yee, I. (1993). Effects of Search Experience and Subject Knowledge on Online Search Behavior: Measuring the Search Tactics of Novice and Experienced Searchers. *Journal of the American Society for Information Science,* 44: 161-174. (Received the 1993 Best JASIS Paper Award.)

Works in Progress

Hsieh-Yee, I. Actionable lessons for debunking false information: A comparative analysis of literacy lessons in communication and library and information science

Hsieh-Yee, I. Representing diverse voices and communities in cataloging and indexing: The evolution of controlled vocabularies

Hsieh-Yee, I. Information Organization and Retrieval in Practice (a monograph scheduled for completion and publication in 2023)

Presentations

Bailey, T. & Hsieh-Yee, I. (February 2020). The Phenomena of Sharing Misinformation and the Need for Information Literacy. Presented at the 2020 Bridging the Spectrum Symposium, Washington, D.C., February 14, 2020.

Hsieh-Yee, I. and Fragan-Fly, J. (May 2018) Trends, Design & Strategies for Digital Scholarship Services. Presented at the 2018 Maryland/Delaware Library Association Conference, Cambridge, MD.

Hsieh-Yee, I. (February, 2018) Research Data Management: What It Takes to Succeed. Presented at the 10th Bridging the Spectrum Symposium, Washington, D.C.

Hsieh-Yee, I. (February, 2017) *Research Data Management: New Competencies and Opportunities for Information Professionals*. Presented at the 9th Bridging the Spectrum Symposium, Washington, D.C.

Hsieh-Yee, I. and Lawton, P. (February, 2017) *Enhancing Catholic Portal Searches with User Terms and LCSH*. Presented at the 9th Bridging the Spectrum Symposium, Washington, D.C.

Hsieh-Yee, I. (2016, October) *Visualizing Data for Information*. Presented at the 2016 Virginia Library Association Conference, Hot Springs, VA.

Hsieh-Yee, I. (2016, August) *Religious Materials Toolbox for Archivists: Solutions to Problems Facing the Profession*. Presented at Archives * Records 2016, Atlanta, GA.

Hsieh-Yee, I. and Lawton, P. (2016, March) *Enhancing Retrieval of Catholic Materials with LCSH Knowledge Structure*. Presented at the 2016 Catholic Library Association Conference, San Diego, CA.

Fagan-Fry, J. and Hsieh-Yee, I. (2016, February) *Approaches to Digital Scholarship at Top Universities around the World: Scholarly Publishing in the Digital Age.* Presented at the 8th Bridging the Spectrum Symposium, Washington, D.C.

Hsieh-Yee and Fagan-Fry, J. (2016, January) *Innovative Services for Digital Scholarship at Top 100 Research Libraries of the World*. Poster presented at the 2016 Annual Conference of the Association for Library and Information Science Education, Boston, Mass.

Hsieh-Yee, I. and Lawton, P. (2015, June). *Crowdsourcing terms for CRRA portal themes.* Poster presented at the third CRRA symposium and annual meeting, Bringing the created toward the Creator: Liturgical art and design since Vatican II. Catholic Theological Union, Chicago, Illinois.

Hsieh-Yee, I. and Lawton, P. (2015, February). *Crowdsourcing terms for thematic exploration in the Catholic Portal.* Poster presented at the 7th Annual Bridging the Spectrum Symposium, Washington, D.C.

Hsieh-Yee, I., James, R., and Fagan-Fry, J. (2015, February). *Support for digital scholarship at top university libraries of the world*. Poster presented at the 7th Annual Bridging the Spectrum Symposium, Washington, D.C.

Hsieh-Yee, I., Zhang, S., Lin, K., and Cherry, S. (2015, February). *Thus said the end users: Summon experience and support for research workflows*. Poster presented at the 7th Annual Bridging the Spectrum Symposium, Washington, D.C.

Yontz, E., Hsieh-Yee, I., & Houston, S. (2015, February). *Healthy Heroes Summer Reading Club: Developing healthy youth at public libraries.* 11th Annual Jean Mills Health Symposium, Greenville, North Carolina.

Yontz, E., Hsieh-Yee, I., and Houston, S. (2015, January). *Healthy youth and libraries: A pilot study.* Association for Library & Information Science Education (ALISE) Annual Conference, Chicago, Illinois.

Hsieh-Yee, I. (2014, May). *Linking CRRA resources to portal themes via authority files*. Presented at the Catholic Research Resources Alliance 2014 Membership Meeting, Marquette, WI.

Hsieh-Yee, I. (2014, April). *Enhancing subject access to CRRA resources*. Presented at the 2014 Catholic Library Association Conference, Pittsburgh, PA.

Hsieh-Yee, I. (2014, January). *Health Information Technology Program: Educational entrepreneurship in action*. Presented at the 2014 annual Conference of the Association for Library and Information Science Education, Philadelphia, PA

Hsieh-Yee, I., Zhang, S., Lin, K., and Cherry, S. (2014, January). *Discovering information through Summon: An analysis of user search strategies and search success*. Paper presented at the 6th Bridging the Spectrum Symposium, Washington, D.C.

Hsieh-Yee, I. (2012, December). *National Digital Stewardship Alliance and SLIS at CUA: An Educational Partnership*. Paper presented at Best Practices Exchange: Acquiring, Preserving, and Providing Access to Government Information in the Digital Era, Annapolis, MD

Choi, Y. and Hsieh-Yee, I. (2010, January). *Finding Images in an OPAC: Analysis of User Queries, Subject Headings, and Description Notes*. Paper presented at 2nd Annual Bridging the Spectrum Symposium, Catholic University of America, Washington, D.C.

Hsieh-Yee, I. and Coogan, J. (2010, January). *Google Scholar vs. Academic Search Premier: What Libraries and Searchers Need to Know*. Paper presented at 2nd Annual Bridging the Spectrum Symposium, Catholic University of America, Washington, D.C.

Hsieh-Yee, I. (2009, November). *Information Science Education: An LIS School's Perspective*. Paper presented at Annual Meeting of the American Society for Information Science and Technology, Vancouver, British Columbia, Canada.

Hsieh-Yee, I., Menard, E., Ya-Ning Chen, A., Shu-Jiun Chen, S., Kalfatovic, M. R., Wisser. K. M. (2009, November). *Information Organization in Libraries, Archives and Museums: Converging Practices and Collaboration Opportunities*. Presented at Annual Meeting of the American Society for Information Science and Technology, Vancouver, British Columbia, Canada. (Organizer and moderator of this panel.)

Hsieh-Yee, I. and Coogan, J. (2009, July). *Catching up to Google Scholar: The Retrieval Power of Academic Search Premier and Google Scholar*. Poster presented at American Library Association Conference, Chicago, Illinois.

Hsieh-Yee, I., with the CUA Scholarly Communications Project Team. (2009, January). *Digital Scholarship@CUA: Developing an Institutional Repository for CUA*. Poster presented at 1st Annual Bridging the Spectrum Symposium, Catholic University of America, Washington, D.C.

Wise, M., Cylke, K., and Hsieh-Yee, I. (2009, January). *Digital Talking Books: Meeting the Needs of the Blind and the Handicapped*. Paper presented at the Bridging the Spectrum Symposium, Catholic University of America, Washington, D.C.

Hsieh-Yee, I. (2009, January). *User Expectations of MERIC*. Presented at the Information Organization Competencies for the 21st Century Discussion Session of the 2009 Conference of the Association for Library and Information Science Education, Denver, Colorado.

Choi, Y., and Hsieh-Yee, I. (2008,November). *Subject Access for Images in an OPAC.* Annual Meeting of the American Society for Information Science and Technology, Columbus, Ohio. (Also co-organized a panel on Retrieving and Using Visual Resources: Challenges and Opportunities for Research and Education.)

Hsieh-Yee, I. (2008, June). *Educating Cataloging Professionals in a Changing Information Environment*. National Taiwan University, Taipei, Taiwan.

Vellucci, S. L., Moen, W.E., Hsieh-Yee, I., Marson, B., and Wisser, K. (2008, January) *Building a Metadata Education and Research Community through MERIC (Metadata Education and Research Information Commons): Demo and Stakeholder Input*. A panel presented at the 2008 Conference of the Association for Library and Information Science Education, Philadelphia, Pennsylvania.

Hsieh-Yee, I., Choi,Y. and Kules, B. (2007, October). *Searching for Books and Images in OPAC: Effects of LCSH, TOC and Subject Domains.* A poster presented at the American Society for Information Science and Technology Annual Meeting, Milwaukee, Wisconsin.

Hsieh-Yee, I. and Coogan, J. (2007, August) *Google Scholar vs. Academic Search Premier: A Comparative Analysis.* Presented to the Faculty and Staff of the University of the District

of Columbia.

Hsieh-Yee, I. and Coogan, J. (2007, June). *Google Scholar vs. Academic Search Premier: A Comparative Analysis*. Presented to the Washington Research Library Consortium Community, Catholic University of America, Washington, D.C.

Hsieh-Yee, I., Choi, Y., and Kules, B.. (2007, June). *What Users Need for Subject Access: Table of Contents or Subject Headings?* A poster presented at the 2007 American Library Association Annual Conference, Washington, D.C., June 2007.

Choi, Y., Hsieh-Yee, I., and Kules, B. (2007, June). *Retrieval Effectiveness of TOC and LCSH.* A paper presented at the Joint Conference on Digital Libraries 2007, Vancouver, Canada.

Vellucci, S. L., Hsieh-Yee, I., and Moen, W.E. (2007, May). *If We Build It, Will They Come? Building a Community of Practice for Metadata Stakeholders.* A poster presented at the Rutgers University Research Day, Bridgeton, New Jersey.

Hsieh-Yee, I. (2007, May). *Federated Searching: User Experience & Perceptions.* International Conference on Information Organization & Retrieval, National Taiwan University, Taipei, Taiwan.

Hsieh-Yee, I. (2007, May). *Search Performance of Google Scholar and Academic Search Premier.* International Conference on Information Organization & Retrieval, National Taiwan University, Taipei, Taiwan.

Hsieh-Yee, I. (2007, May) *MERIC: Building a Digital Commons for Metadata Education & Research.* International Conference on Information Organization & Retrieval, National Taiwan University, Taipei, Taiwan.

Hsieh-Yee, I., and Coogan, J. (2007, March/April). *A Comparative Analysis of Google Scholar and Academic Search Premier.* Poster presented at the Association of College & Research Libraries 13th National Conference, Baltimore, Maryland.

Vellucci, S. L. and Hsieh-Yee, I. (2007, March/April) *They Didn't Teach Me That in Library School! Building a Digital Teaching Commons to Enhance Metadata Teaching, Learning and Research*. On-site presentation and Webcast by Elluminate. A contributed paper presented at the Association of College & Research Libraries 13th National Conference, Baltimore, Maryland. The acceptance rate for contributed paper was 20%. This paper was one of 10 conference papers chosen for live webcast during the conference.

Moen, W., Hsieh-Yee, I. and Vellucci, S.L. (2007, January) *A DSpace Foundation for a Teaching & Research Commons: The Metadata Education and Research Information Commons.* A poster session presented at the Open Repositories Conference 2007, San Antonio, Texas.

Tang, R., Hsieh-Yee, I., and Zhang, S. (2006, November) *User Perception of MetaLib Combined Search*. Paper presented at the Annual Meeting of the American Society for Information Science and Technology, Austin, Texas, Nov. 2006.

Hsieh-Yee, I. (2006, November). *Federated Searching: User Perceptions, System Design, and Library Instructions.* Paper presented at the Annual Meeting of the American Society for Information Science and Technology, Austin, Texas. (Panel organizer, moderator, presenter).

Hsieh-Yee, I. (2006, November). *Building a Digital Teaching Commons to Enhance Teaching and Learning: The MERIC Experience and Challenges.* Paper presented at the Annual Meeting of the American Society for Information Science and Technology, Austin, Texas. (Panel organizer, moderator, presenter)

Hsieh-Yee, I. (2006, September). *Search Performance of Google Scholar and Academic Search Premier.* Paper presented at the ERIC Publishers Meeting, Washington, D.C.

Hsieh-Yee, I., Zhang, S., and Rong Tang, R. (2006, June). *User Perceptions of a Federated Search System*. Poster presented at Joint Conference on Digital Libraries, Chapel Hill, North Carolina.

Hsieh-Yee, I. and Zhang, S. (2006, June). *Preparing Users for Federated Search: Implications of a MetaLib User Perceptions Study.* Paper presented at the 2006 Ex Libris User Groups of North America Conference, Knoxville, Tennessee.

Hsieh-Yee, I. (2006, January). *MERIC Organizations and Navigation*. Paper presented at the 2006 ALISE Annual Conference, San Antonio, Texas.

Hsieh-Yee, I. (2006, January). *Metadata and Cataloging Education: Recommended Competencies.* Paper presented at the 2006 ALISE Annual Conference, San Antonio, Texas.

Hsieh-Yee, I. (2005, November). *Digital Library Evaluation: Progress & Next Steps.* Presentation at the Annual Meeting of the American Society for Information Science & Technology, Charlotte, North Carolina.

Hsieh-Yee, I. (2005, August). *Providing Access to Digital Content: Issues for DL Managers.* Presentation at MDK12 Digital Library Steering Committee Meeting, Columbia, Maryland.

Hsieh-Yee, I. (2005, April). *Enhancing Teaching and Learning: The Role of School Library Media Specialists.* Presentation at Meeting of the Baltimore County Public School System School Media Specialists, Baltimore, Maryland.

Hsieh-Yee, I. (2005, January). *Subject Access and Users: Insights & Inspirations from Marcia J. Bates.* Paper presented at the Historical Perspectives SIG, 2005 Conference of the Association for Library and Information Science Education, Boston, Massachusetts.

Hsieh-Yee, I. (2005, January). *Electronic Resource Management: Practice, Employer Expectations, & CE Interests.* Paper presented at Technical Services Education SIG, 2005 Conference of the Association for Library and Information Science Education, Boston, Massachusetts.

Hsieh-Yee, I. (2004, October). *Library Professionals for the Digital Age: Competencies & Preparation.* Paper presented at Bibliographic Access Management Team meeting, Library of Congress, Washington, D.C.

Hsieh-Yee, I. (2004, January). *Cataloging and metadata expertise for the digital era.* Presented at Preparing 21st Century Cataloging and Metadata Professionals: A Workshop for Educators and Trainers, San Diego and sponsored by ALCTS, ALISE, LC, and OCLC.

Hsieh-Yee, I. (2004, January). *Educating catalogers for the digital era.* Paper presented at the Technical Services SIG, 2004 Conference of the Association for Library and Information Science Education, San Diego.

Hsieh-Yee, I. (2003, July). *Cataloging Education for the 21st Century.* A presentation at the Library of Congress, Washington, D.C.

Hsieh-Yee, I. (2002, January) *Metadata Education and Research Priorities: A Delphi Study of Metadata Experts.* Presentation at the 2002 Conference of the Association for Library and Information Science Education, New Orleans.

Hsieh-Yee, I. (2001, November). *A Delphi Study of Metadata: Preliminary Findings.* Poster session at the 2001 Annual Meeting of the American Society for Information Science & Technology, Washington, D.C.

Hsieh-Yee, I. (2001, June). *Resources on Asian American Children: Analysis of Retrieval by Search Engines and WorldCat.* Presentation at the National Conference on Asian Pacific American Librarians, San Francisco.

Hsieh-Yee, I. (2001, January). *Delphi Study on Metadata: Project Design.* Presentation at Research Awards Session, Association for Library & Information Science Education, Washington, D.C.

Hsieh-Yee, I. (2000, May). *Web Search Behavior Research: Progress and Implications.* Presentation at the Symposium on Evaluating Library and Information Science Research, University of Wisconsin-Madison, Madison, Wisconsin.

Hsieh-Yee, I. (2000, March). *ERIC User Services: Evaluation in a Decentralized Environment.* Presentation at the National ERIC Joint Directors/Technical Meeting, Arlington, Virginia.

Hsieh-Yee, I. (2000, January). *Enhancing Learning with Web Technology.* Presentation at Faculty Conversations, Catholic University of America, Washington, D.C.

Hsieh-Yee, I. (2000, January). *From Surrogates to Objects: CUA's Approaches to Organizing Electronic Resources.* Paper presentation at the Annual Conference of the Association for Library and Information Science Education, San Antonio, Texas.

Yee, P., and Hsieh-Yee, I. (1997, November). *Individual Differences in Search Behavior on the WWW.* A poster session presented at the 38th Annual Meeting of the Psychonomic Society, Philadelphia, Pennsylvania.

Hsieh-Yee, I. (1997, April). *Research + Marketing + Preparation = Job!* Presented at the "Workshop on Resume and Interview Techniques," Special Libraries Association, Student Chapter, Catholic University of America, Washington, D.C.

Hsieh-Yee, I. (1997, February). *Creating CyberCatalogers: Education and Training.* Presentation at ALA's Midwinter Meeting, Washington, D.C.

Hsieh-Yee, I. (1997, February). *Search Tactics of Web Users in Searching for Texts, Graphics, Known Items and Subjects: A Search Simulation Study.* Presented at the Conference of the Association for Library and Information Science Education, Washington, D.C.

Hsieh-Yee, Ingrid. "Beginning Your Special Library/Information Center Career." Presented at SLA's "Career Day," Jan. 11, 1997, Catholic University of America.

Hsieh-Yee, I. (1996, September). *The Roles of Library and Information Scientists in Managing Electronic Information.* Presentation at Hamilton College, Clinton, New York.

Hsieh-Yee, I. (1996, May). *The Future of Cataloging as a Profession.* Presented at "The Cataloging Forum, Library of Congress, Washington, D.C.

Hsieh-Yee, I. (1994, October). *The Impact of the Internet on OPACs.* Presented at the Third Workshop on User Interfaces for OPACs, Library of Congress, Washington, D.C.

Reports

Hsieh-Yee, I., with Knowledge Management Competencies and Performance Action Group of the Federal Knowledge Management Initiative. "From Knowledge Management Competencies to Improved Organizational Performance." April 9, 2009.

Hsieh-Yee, I., with Knowledge Practices Action Group of the Federal Knowledge Management Initiative. "KM Practice in Government Agencies: Findings and Recommendations." April 9, 2009.

Hsieh-Yee, I. "Delphi Study on Metadata." 2001. Three quarterly reports submitted to the Association for Library and Information Science Education.

Hsieh-Yee, I. "College Students' Information Channels: Patterns of Use and Possible Factors in Channel Selection." 1995. Submitted to the Catholic University of America.

Hsieh-Yee, I. "The Information-Seeking Patterns of Scholars and Their Use of an Online Information System." 1994. Submitted to the Council on Library Resources.

Book Reviews

Review of *The Measurement and Evaluation of Library Services*, by Sharon L. Baker and F. Wilfrid Lancaster. *Information Processing and Management* 30 (1994): 450-52.

Review of *Subject Access to Films and Videos, by Sheila S. Intner and William E. Studwell; and Cataloging Unpublished Nonprint Materials*, by Verna Urbanski with Bao Chu Chang and Bernard L. Karon. *Information Processing and Management* 30 (1994): 449-50.

Review of *Automated Information Retrieval in Libraries: A Management Handbook*, by Vicki Anders. *Journal of Library and Information Science* 19 (1993): 98-100.

Review of *Full Text Databases*, by Carol Tenopir and Jung Soon Ro. *Information Processing and Management* 28 (1992): 667-68.

Review of *Descriptive Cataloging for the AACR2R And USMARC: A How-to-Do It Workbook*, by Larry Millsap and Terry Ellen Ferl. *Information Processing and Management* 28 (1992): 809-11.

Review of *MARC Manual: Understanding and Using MARC Records*, by Deborah J. Byrne. *Information Processing and Management* 28 (1992): 537-38.

Service

Professional Associations and Societies

- Library of Congress. RDA Training Program for the Profession. Co-authored with Tim Carlton. 2013-2014.
- 2014 Digital Preservation Outreach & Education Survey. Contributed to the design of the survey, 2014.
- National Digital Stewardship Alliance. Outreach Committee. 2011-2014.
- National Digital Stewardship Residency Program. Advisory Group, 2012-2013.
- FEDLINK Health Information Technology Advisory Council, 2011-2015.

- 2012 Joint Conference on Digital Libraries. Program Planning Committee, Pre-Conference Proposals Review Committee, 2012
- Catholic Research Resources Alliance. Five-Year Strategic Plan Task Force, 2011-2012
- Institute of Museum and Library Services. Grant reviewer. 2004, 2005, 2010.

- Association for Library and Information Science Education.
  * ALISE Bodan Wynar Research Paper Award Committee, 2015, 2016, 2017
  * ALISE Eugene Garfield Dissertation Award Competition, Jury, 2013, 2014
  * ALISE Research Grant Competition Committee. Chair, 2012
  * Pratt-Severn Faculty Innovation Award. Chair, 2009, 2010
  * ALISE Doctoral Poster Jury, 2012
  * "Information Organization Competencies for the 21st Century" Discussion session leader. 2009 Conference of the Association for Library and Information Science Education.
  * Assisted Technical Services SIG Convener in organizing a program, ""Building a Metadata Education and Research Community through MERIC (Metadata Education and Research Information Commons): Demo and Stakeholder Input" for the 2008 ALISE conference.
  * Association for Library Collections and Technical Services/Association for Library and Information Science Education (ALCTS/ALISE) Metadata Education and Research Information Center (MERIC) Advisory Board, Co-Chair (with Sherry Vellucci), 2005-2007. Chair, 2008-2009 (leading the effort to build MERIC, a repository and collaborative space for metadata educators, practitioners, and researchers)
  * Technical Services SIG, Convener, 2004-2005. Organized a program on "Electronic Resources Management: Current Practices, Employer Expectations, and Teaching Strategies" for the 2005 conference in Boston, Massachusetts.
  * Technical Services SIG, Convener, 2003-2004. Organized a program on "Organizing Information with Metadata: Desired Competencies and Teaching Innovations" for the 2004 conference.
  * Technical Services SIG, Convener, 1999-2000. Organized a program on "Teaching the Organization of Electronic Resources" for the 2000 conference.
  * Curriculum SIG, Co-convener (with Sibyl Moses), 1996-97. Organized a program on "Government Information Policy" for the 1997 conference.

- American Society for Information Science & Technology.
  * Reviewer, Conference program panel submissions and poster submissions, 2005, 2006, 2007, 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017
  * Nomination Committee, 2009-2011
  * Information Science Education Special Interest Group. American Society for Information Science and Technology. Chair-Elect, 2007-2008. Chair 2008-2009.
  * Committee on Information Science Education. 1999-2006.
  * Committee on Information Science Education. Organizing Committee for an orientation program for students at ASIS annual meetings, 1999-2001
  * Committee on Information Science Education. Sub-committee on Student Welfare (focusing on issues related to master's education), 1998-2001

* SIG ED. Organizing Committee for the "Seminar on Research and Career Development" for junior researchers. 1995-96 (chair), 1997-2001
* ISI Doctoral Dissertation Proposal Scholarship Jury, 1997; 2001, 2002
* Pratt-Severn Best Student Research Paper Award Jury. Chair. 1997
* 1998 Midyear Meeting (referee of contributed papers), 1997
* Organizer and moderator of the ASIS Doctoral Forum and the Doctoral Research Seminar 1994-1995
* SIG Human Computer Interaction. Chair-Elect, Chair, 1993-1995
* Doctoral Forum Award Jury, 1995
* Best Student Paper Award Jury, 1995

- American Library Association.
  * Committee on Accreditation, External Review Panelist, 2009- (site visiting team 2013-2014; site visiting team 2016-2017)
  * Association for Library Collections and Technical Services Task Force on Competencies and Education for a Career in Cataloging, member, 2008-2009
  * Facilitator for "What They Don't Teach in Library School: Competencies, Education and Employer Expectations for a Career in Cataloging," an Association for Library Collections and Technical Services Preconference, June 22, 2007 in Washington, D.C. Also a local liaison for bringing this program to the Catholic University of America.
  * Facilitator for a discussion on "Effect of Electronic Resources on Technical Services" at ALA's Midwinter Meeting held in Feb. 1997 in Washington, D.C.
  * International Relations Committee, Subcommittee Task Force for IFLA and China, 1994-1997

- Virginia Association of School Librarians. Scholarships and Awards Committee. 2010-2012

- Federal Knowledge Management Initiative, Knowledge Management Practices Action Group. Member. 2009 (leading the effort to build a knowledge management repository)
- Federal Knowledge Management Initiative, Knowledge Management Competencies & Learning Action Group. Member. 2009 (developing an action plan for helping government knowledge workers and government agencies to develop knowledge management competencies)
- National Center for Education Statistics. Technical Review Panel. 2008.
- External evaluator for a case of promotion to full professorship. University of Tennessee. 2008.
- National Information Standards Organization (NISO). Advisory Board, Revision of "IMLS Framework of Guidance for Building Good Digital Collections," 2004, 2007.
- Library of Congress, Bibliographic Control of Web Resources: A Library of Congress Action Plan. Principal Investigator of Action Item 5.1, focusing on cataloging and metadata education for students and new librarians, 2002-2003. (worked with the Association for Library Collections and Technical Services, Education Task Force)

- Chinese American Librarians Association
  * Chinese American Librarians Association Outstanding Library Leadership Award in Memory of Dr. Margaret Chang Fung, Award Committee, 2016-2017
  * Achievement Award Jury, 2000-2001
  * CALA Goal 2000 Task Force, 1997
  * Scholarship Committee, 1995, 1996-1997 (chair)
  * Board of Directors, 1994-1997
  * Publication Committee, 1993-1995
  * International Relations Committee, 1993-1996

- Sailor[SM] Assessment Advisory Group (An impact study of Sailor, Maryland's Public Information Network), 1995

- Editorial boards
  Journal of Library & Information Science. Editorial Board, 2012-
  Chinese American Librarians Association, *Occasional Papers Series*. Editorial Board, 2009-2016.
  Library Quarterly. Editorial Board, 2003-2008
  Bulletin of the Medical Library Association, 1994-97
  Newsletter editor for the Chinese American Librarians Association, 1989-92

- Referee for the following journals
  Information Processing and Management
  Journal of Digital Information
  Journal of Education for Library and Information Science
  Journal of Information Science
  Journal of Library & Information Science
  Journal of Library Metadata
  Journal of the American Society for Information Science & Technology
  Library and Information Science Research
  Library Quarterly

- Expert reviewer, "Digital Library" course, Evaluation module, University of North Carolina, Chapel Hill, 2007-2008.
- Expert reviewer, "Information Organization" course, University of Michigan, Ann Arbor. 2007.

Catholic University of America

- Academic Senate Committee on Appointments and Promotions, 2005-2008
- Academic Senate Committee on Committees and Rules, 2009-2012, 2019-2022
- Academic Senate representative (for School of Arts & Sciences), 2017-2020

- Academic Senate representative (for School of Library & Information Science) 2003-2012
- Academic Senate Library Committee, Interim Chair (2007), Member, 2008-2012
- Academic Senate Committee on Computing, 1995-2003

- President's Administrative Council, 2010-2012
- Deans' Council, 2010-2012
- Academic Leadership Group, 2010-2012
- Graduate Board, 2010-2012

- School of Arts & Sciences, Committee on Appointments and Promotions, 2015-2019
- School of Arts & Sciences, Academic Council, 2015-2016.
- School of Arts & Sciences, Ordinary Professor Group, 2013-
- Doctoral Dissertation Defense Committee, Chair, Dept. of Psychology, 2016, 2017, 2018, 2019, 2020, 2021, 2022
- Doctoral Dissertation Defense Committee, Chair, Dept. of Education, 2014, 2015, 2017, 2018, 2019
- Doctoral Dissertation Defense Committee, Chair, National Catholic School of Social Services, 2019, 2020, 2021
- Doctoral Dissertation Defense Committee, Chair, School of Nursing, 2006, 2008
- CUA Scholarly Communication Project Team, Member (2007), Chair, 2008-2009
- Dean Search Committee, 1992-1994, 1998-1999, 2002-2003, 2006-2007
- Fulbright Review Panel, 2006
- CUA Service Learning Advisory Board, 2001-2002
- CUA Faculty Conversations on Enhancing Teaching and Learning through Technology, Planning Group, 1999-2001
- CUA Initiative on Technology and Teaching, 1998-2001

Dept. of Library and Information Science

- Admissions Committee, 2007-2009, Chair 2010-2012, Member 2013-2015, Member 2018-2022
- Appointments and Promotions Committee, 1991-2022
- Student advisement, 1990-2022
- 4+1 Bachelor to Master program, Program Advisor, 2014-2022
- LIS Minor, Advisor, 2017-2022
- Curriculum Committee, 2020-21 (Member), 2021-2022 (Chair)
- Scholarship & Awards Committee, 2016-2018, 2020-21
- Comprehensive examination editor, 2020-21
- Symposium, Colloquium, Lecture Series Committee, May 2018-May 2020 (Chair)
- Symposium and Colloquium Committee, fall 2016-May 2018
- Bridging the Spectrum Symposium session moderator, 2018, 2019, 2020, 2021

- Organization of Information Core Course Outcomes Assessment, 2019, 2020
- The Information Professions in Society Core Course Outcomes Assessment, 2019, 2020
- Community Services Librarianship, Course of Study Review and Revision, 2020
- Organization of Information, Course of Study Review and Revision, 2019
- Organization of Information, Competency and Course Offerings Review, 2018-2019
- Accreditation presentation, Chair, June 2015-August 2016
- Interim Co-Chair, June 2015-August 2016.
- Blended/OWL Learning Committee, spring 2016-2018
- Technology Committee, fall 2016-2017
- Comprehensive examination editor, 2016-2017, reader (every year since 1990)
- LIS Advisory Board, 2015-2016 (chair); fall 2016- May 2018 (member)
- Committee on Planning and Assessment, 2015-2016 (chair)
- Senior Faculty Committee, 2014-2016.
- Accreditation Steering Committee, 2014-2016 (Chair, 2015-2016)
- Accreditation Students Standard Committee, co-chair, 2014-2016
- Accreditation Mission, Goals, and Objectives Standard Committee, co-chair, 2014-2016
- Accreditation Curriculum Standard, member 2014-2-16
- Accreditation Administration and Finance Standard, member 2014-2016
- Cultural Heritage Information Management Project (IMLS-funded), Co-PI, 2012-2015
- Cultural Heritage Information Management Forum (scheduled for June 2015), Co-Organizer, 2013-2015
- Health Information Technology Interim Review Committee, 2015 (chair)
- Health Sciences Librarianship Advisory Group, 2015- (chair)
- Comprehensive examination editors, 2013-2014, 2016-2017
- National Digital Stewardship Alliance liaison, 2011-2014
- Advisory Board, Chair 2010-2012
- Academic Honesty Committee, Chair, 2008-2012
- Blended Learning Committee, 2010-2012
- Colloquium Committee, 2010-2012
- Comprehensive Examination Administration, 2010-2012
- Cultural Heritage Information Management Advisory Committee, 2010-2012 (chair), 2013-
- Curriculum Committee, 1991-2003, 2007-2009, Chair 2010-2012, member 2013-
- Curriculum Subcommittee on Comprehensive Examination, Chair 2009-2012
- Health Information Technology Advisory Board, Chair 2010-2012. Member 2013-
- Health Sciences Advisory Committee, 2009, Chair 2010-2012. Member 2013-
- HIT Expert Forum, Chair 2012. Member 2013-2015
- Health Information Technology Student Group Advisor, 2011-2012
- State Council for Higher Education of Virginia, SLIS Representative, 2010-2012
- Symposium Planning Committee, 2010-2012
- Website Management Team, Chair, 2010-2012
- Urban School Librarianship Project (IMLS-Funded), PI, 2007-2011 (chair, 2010-11)

- Failing Grades Committee, 1995-1997 (chair), 2000-2001 (chair), 2004-2005 (chair), 2007 (chair)-2011
- Faculty Search Committee, 1994-1998, 2002-2004, 2006 (chair), Fall 2007-2009, Chair fall 2009-2012
- Recruitment Committee, Chair 2010-2012
- Strategic Planning Committee, Chair 2010-2012
- Technology Committee, 2010-2012
- Accreditation Advisory Committee, 2007-2009
- Accreditation Coordinating Committee, 2007-2009
- Accreditation Steering Committee, 2007-2009
- SLIS Advisory Group, 2007-2009
- Accreditation Curriculum Standard Committee, Co-chair, 2007-2009
- Accreditation Faculty Standard Committee, Co-chair, 2007-2009
- LSC 551 Information Organization Review Team, Co-chair, 2008-2009, 2015-2016.
- Curriculum Subcommittee on Portfolios, 2009
- LSC 555 Information Systems in Libraries and Information Centers Review Team, contributor, 2008-2009
- Redesign of LSC 730 Use and Users of Libraries and Information. 2009-
- Development of a metadata institute that was taught as LSC 715 Organization of Internet Resources in 2008. The institute is being revised and will be offered in 2010 under a new course title.
- Development of lesson plans, assignments, and evaluation rubrics for LSC 606, Cataloging and Classification, for the School's NCATE accreditation. 2008
- Howard and Mathilde Rovelstad Scholarship Committee, Chair, 2004-2007
- Assistant Dean Search Committee, Chair, Fall 2007
- Liaison to the Association for Library Collections and Technical Services to bring its preconference program, Cataloging Education and Employer Expectations, to CUA during the 2007 American Library Association Annual Meeting in Washington, D.C.
- Organizer of the colloquium presentation and reception for Tamar Sadeh of Ex Libris on PRIMO June 2007
- Practicum review and design (work with potential supervisors, such as the American Indian Museum internship description revision) 2006-
- Comprehensive examinations (edits, proctoring, and grading), 1990-
- SLIS Web site redesign: Comments and suggestions. Fall 2007
- Conducted surveys of current students and alumni in preparation for the 2005 re-accreditation, 2004-2005
- Technology Committee, 1992-1999 (chair, 1996-1998), 2002-2003 (member)
- Colloquia Committee 1997-1999, 2002-2003.
- Advisor of the CUA Student Chapter of the American Society for Information Science and Technology, 2002-2003
- Visiting Professor Search Committee, 1999, 2000, 2001
- Leader, Participation in the CORC experiment, 1999-2000
- Advisor of the Special Libraries Association Student Chapter, 1993-1999; the group was recognized for outstanding leadership by SLA in 1999.

- COA planning Committee, Task Force on Electronic Presentation of SLIS Reports (team leader) 1997-1998
- COA Planning Committee, Subcommittee on Technology 1996-1998
- NLM practicum coordinator, 1997-1998
- Computer Literacy Workshops: Assisted with the development and evaluation of the workshops, 1996-1998
- Leader, Participation in the InterCat project, 1995-1997

APPENDIX B

MARC 21 Reference Materials

Part VII: A Summary of Commonly Used MARC 21 Fields
Part VIII: A List of Other Fields Often Seen in MARC Records
Part IX: The Leader
Part X: Field 008 for Books

Part VII:

A Summary of Commonly Used MARC 21 Fields

This is a summary of the MARC 21 tags used most frequently by libraries in entering their own bibliographic records. For full listings of all MARC 21 tags, indicators, and subfield codes, see *MARC 21 Format for Bibliographic Data*.

In the explanations on these pages:

Tags -- The tags (3-digit numbers) are followed by the names of the fields they represent. In this summary, and in the *MARC 21 Format for Bibliographic Data*, if a tag can appear more than once in one bibliographic record, it is labeled repeatable (R). If it can only be used once, it is labeled non-repeatable (NR). For example, a catalog record can have several subjects, so the tags for subject added entries (6XX) are labeled repeatable (R).

Indicators -- The use of indicators is explained in fields where they are used. Indicators are one-digit numbers. Beginning with the 010 field, in every field -- following the tag -- are two character positions, one for Indicator 1 and one for Indicator 2. The indicators are not actually defined in all fields, however. And it is possible that a 2nd indicator will be used, while the 1st indicator remains undefined (or vice versa). When an indicator is undefined, the character position will be represented by the character # (for blank space).

Subfield codes -- All the data in each field (beginning with the 010 field) is divided into subfields, each of which is preceded by a delimiter-subfield code combination. The most common subfield codes used with each tag are shown. Each subfield code is preceded by the character $, signifying a delimiter. The name of the subfield follows the code.

In general, every field MUST have a subfield 'a' (**$a**). One exception that is often seen is in Field 020 (ISBN), when the ISBN information (subfield **$a**) is unavailable but the price (subfield **$c**) is known. Some subfields are repeatable. In this summary, repeatability is noted for only the more common repeatable subfields.

Examples: Examples follow the explanation for each field. For clarity, one space has been placed between the tag and the first indicator, one space has been placed between the second indicator and the first delimiter- subfield code, and one space has been inserted between the delimiter-subfield code and the subfield data.

010 Library of Congress Control Number -- (LCCN)
(NR, or Not Repeatable
Indicators undefined.

Subfield used most often:

$a -- Library of Congress control number

```
Example:    010 ##  $a ###86000988#
```

020 International Standard Book Number -- (ISBN)
(R, or Repeatable)

Indicators undefined.

Subfields used most often:

$a -- International Standard Book Number
$c -- Terms of availability (often a price)
$z -- Cancelled/invalid ISBN (R)

```
Example:    020 ##  $a 0877547637
```

040 Cataloging source -- (NR)

Indicators undefined.

Subfields used most often:

$a -- Original cataloging agency
$c -- Transcribing agency
$d -- Modifying agency (R)

```
Example:    040 ## $a DLC
                   $c DLC
                   $d gwhs
```

100 Main entry -- Personal name -- (primary author)
(NR; there can be only one main entry)

Indicator 1: Type of personal name entry element

0 -- Forename
1 -- Surname (this is the most common form)
3 -- Family name

Indicator 2 undefined.

Indicator 2 became obsolete in 1990. Older records may display 0 or 1

Subfields used most often:

$a -- Personal name
$b -- Numeration
$c -- Titles and other words associated with a name (R)
$q -- Fuller form of name
$d -- Dates associated with a name (generally, year of birth)

```
Example:    100 1# $a Gregory, Ruth W.
```

```
                        $q (Ruth Wilhelme),
                        $d 1910-
```

130 Main entry -- Uniform title -- (NR)

Indicator 1: Nonfiling characters

0-9 -- Number of nonfiling characters present (for initial articles, including spaces)

Indicator 2 undefined.

Indicator 2 became obsolete in 1990. (See 100 above.)

Subfields used most often:

$a -- Uniform title
$p -- Name of part/section of a work (R)
$l -- Language of a work
$s -- Version
$f -- Date of a work

```
Example:    130 0# $a Bible.
                   $p O.T.
                   $p Psalms.
```

240 Uniform title (NR)

Indicator 1: Uniform title printed or displayed

0 -- Not printed or displayed
1 -- Printed or displayed (most common)

Indicator 2: Nonfiling characters

0-9 -- Number of nonfiling characters present (for initial articles, including spaces)

Subfields used most often:

$a -- Uniform title
$l -- Language of a work
$f -- Date of a work

```
Example:    240 10 $a Ile mystérieuse.
                   $l English.
                   $f 1978
```

245 Title Statement (NR)

Indicator 1: Title added entry

(Should the title be indexed as a title added entry?)

0 -- No title added entry

(indicates a title main entry; i.e. no author is given)

1 -- Title added entry

(the proper indicator when an author given in 1XX; the most common situation)

Indicator 2: Nonfiling characters

0-9 -- Number of nonfiling characters present, including spaces; usually set at zero, except when the title begins with an article; e.g., for *The robe*, the second indicator would be set to 4. The letters *T*, *h*, *e*, and the space following them are then ignored in alphabetizing titles. The record will be automatically filed under "*r*" -- for *Robe*.

Subfields used most often:

$a -- Title proper
$h -- Medium (often used for non-book media)
$p -- Name of part/section of a work (R)
$b -- Reminder of title (subtitles, etc.)
$c -- Remainder of title page transcription/Statement of responsibility

```
Example:    245 14 $a The DNA story :
                   $b a documentary history of gene
                      cloning /
                   $c James D. Watson, John Tooze.
```

246 Varying form of title (R)

Indicator 1: Note/title added entry controller
1 -- Note, title added entry
3 -- No note, title added entry

Indicator 2: Type of title
-- No information provided
0 -- Portion of title
1 -- Parallel title
4 -- Cover title
8 -- Spine title

Subfield used most often:
$a -- Title proper

```
Example:    246 3# $a Four corners power review
```

250 Edition statement (NR)

Indicators undefined.

Subfield used most often:
$a -- Edition statement

```
Example:    250 ## $a 6th ed.
```

260 Publication, distribution, etc. (Imprint) (R)

Indicator 1: Sequence of publishing statements
-- No information provided

Indicator 2: Undefined

Subfields used most often:

$a -- Place of publication, distribution, etc. (R)
$b -- Name of publisher, distributor, etc. (R)
$c -- Date of publication, distribution, etc. (R)

```
Example:    260 ## $a New York :
                   $b Chelsea House,
                   $c 1986.
```

300 Physical description (R)

Indicators undefined.
Subfields used most often:

$a -- Extent (number of pages) (R)
$b -- Other physical details (usually illustration information)
$c -- Dimensions (cm.) (R)
$e -- Accompanying material (for example, "teacher's guide" or "manual")

```
Example:    300 ## $a 139 p. :
                   $b ill. ;
                   $c 24 cm.
```

440 Series statement / Added entry--Title

This field was made obsolete in 2008 to simplify the series statement. See 490 and 830.

490 Series statement (No added entry is traced from field) (R)

Indicator 1: Specifies whether series is traced (whether an 8XX tag is also present)

0 -- Series not traced
1 -- Series traced (8XX is in record)

Indicator 2 undefined.
Subfield used most often:

$a -- Series statement (R)
$v -- Volume number (R)

```
Example:    490 1# $a Colonial American craftsmen
```

500 General note (R)

Indicators undefined.
Subfield used most often:

$a -- General note (Used when no specialized note field has been defined for the information. Examples: Notes regarding the index; the source of the title; variations in title; descriptions of the nature, form, or scope of the item.)

```
Example:    500 ##  $a Includes index.
```

504 Bibliography, etc. note (R)

Indicators undefined.

Subfield used most often:

$a -- Bibliography, etc. note

```
Example:    504 ## $a Includes bibliographical
                      references.
```

505 Formatted contents note (R)

Indicator 1: Type of contents note

0 -- Complete contents

1 -- Incomplete contents (used with multivolume set when some volumes are not yet published)

2 -- Partial contents

Indicator 2: Level of content designation

-- Basic

Subfield used most often:

$a -- Formatted contents note

```
Example:    505 0# $a Pride and prejudice -- Emma
                      -- Northanger Abbey.
```

520 Summary, etc. note (R)

Indicator 1: Display constant controller

-- Summary

1 -- Review

2 -- Scope and content

3 -- Abstract

Indicator 2 undefined

Subfields used most often

$a -- Summary, abstract, or annotation

$b -- Expansion of summary note

```
Example:    520 ## $a This basic guide to parliamentary
                      procedure tells how to conduct
                      and participate in a meeting
                      properly.
```

600 Subject added entry -- Personal name (R)

Indicator 1: Type of personal name entry element

0 -- Forename

1 -- Surname (this is the most common form)
3 -- Family name

Indicator 2: Subject heading system/thesaurus (identifies the specific list or file which was used)

0 -- Library of Congress Subject Headings
1 -- LC subject headings for children's literature
2 -- Medical Subject Headings
3 -- National Agricultural Library subject authority file
4 -- Source not specified
5 -- Canadian Subject Headings
6 -- Répertoire de vedettes-matière
7 -- Source specified in subfield $2

(Note regarding Sears subject headings: The MARC 21 format does not provide an assigned indicator for Sears subject headings. Therefore, an indicator of 7 is used, and the MARC defined code "sears" is placed in subfield $2.)

Subfields used most often:

$a -- Personal name (surname and forename)
$b -- Numeration
$c -- Titles and other words associated with a name (R)
$q -- Fuller form of name
$d -- Dates associated with a name (generally, year of birth)
$t -- Title of a work
$v -- Form subdivision (R)
$x -- General subdivision (R)
$y -- Chronological subdivision (R)
$z -- Geographic subdivision (R)
$2 -- Source of heading or term (used with 2nd indicator of 7)

```
Example:    600 10 $a Shakespeare, William,
                   $d 1564-1616
                   $x Comedies
                   $x Stage history.
```

```
Example:    600 10 $a Shakespeare, William,
                   $d 1564-1616
                   $x Knowledge
                   $z Rome
                   $v Congresses.
```

Notice that subfields $v, $x, and $z in the 600 field are repeatable. Subfields $v, $x, $y, and $z do not have to be in alphabetical order. They will be in the order prescribed by the instructions given by the subject heading system.

610 Subject added entry -- Corporate name (R)

*Indicator 1:*Type of corporate name entry element

0 -- Inverted name (not used with AACR2)
1 -- Jurisdiction name
2 -- Name in direct order

Indicator 2: Subject heading system/thesaurus.
See indicator 2 under 600

Subfields used most often:
$a -- Corporate name or jurisdiction name as entry element
$b -- Subordinate unit (R)
$v -- Form subdivision (R)
$x -- General subdivision (R)
$y -- Chronological subdivision (R)
$z -- Geographic subdivision (R)
$2 -- Source of heading or term (used with 2nd indicator of 7)

```
Example:    610 10 $a United States.
                   $b Army Air Forces
                   $v Biography.
```

650 Subject added entry -- Topical term (Most subject headings fit here.) (R)

Indicator 1: Level of subject
-- No information provided

Indicator 2: Subject heading system/thesaurus
(identifies the specific list or file which was used)
0 -- Library of Congress Subject Headings
1 -- LC subject headings for children's literature
2 -- Medical Subject Headings
3 -- National Agricultural Library subject authority file
4 -- Source not specified
5 -- Canadian Subject Headings
6 -- Répertoire de vedettes-matière
7 -- Source specified in subfield $2

Note regarding Sears subject headings: The MARC 21 format does not provide an assigned indicator for Sears subject headings. Therefore, an indicator of 7 is used, and the MARC defined code "sears" is placed in subfield $2.)

Subfields used most often:
$a -- Topical term
$v -- Form subdivision (R)
$x -- General subdivision (R)
$y -- Chronological subdivision (R)
$z -- Geographic subdivision (R)
$2 -- Source of heading or term used with 2nd indicator of 7)

```
Example:    650 #0 $a Theater
                   $z United States
                   $v Biography
                   $v Dictionaries.
```

Notice that subfields $v, $x, and $z in the 650 field are repeatable. Subfields $v, $x, $y, and $z do not have to be in alphabetical order. They will be in the order prescribed by the instructions given by the subject heading system.

651 Subject added entry -- Geographic name (R)

Indicator 1: undefined.
Indicator 2: Subject heading system/thesaurus.
See indicator 2 under 600
Subfields used most often:
$a -- Geographic name
$v -- Form subdivision (R)
$x -- General subdivision (R)
$y -- Chronological subdivision (R)
$z -- Geographic subdivision (R)
$2 -- Source of heading or term (used with 2nd indicator of 7)

```
Example:    651 #0 $a United States
                   $x History
                   $v Chronology.
```

Notice that subfields $v, $x, and $z in the 651 field are repeatable. Subfields $v, $x, $y, and $z do not have to be in alphabetical order. They will be in the order prescribed by the instructions given by the subject heading system.

700 Added entry -- Personal name (R)

Indicator 1: Type of personal name entry element
0 -- Forename
1 -- Surname (this is the most common form)
3 -- Family name
Indicator 2: Type of added entry
-- No information provided (most common; co-authors, editors, etc.)
2 -- Analytical entry (The values for Indicator 2 changed in 1994 with Format Integration, and older records may display additional values. An analytical entry involves an author/title of an item contained in a work.)
Subfields used most often:
$a -- Personal name
$b -- Numeration
$c -- Titles and other words associated with a name (R)
$q -- Fuller form of name
$d -- Dates associated with a name (generally, year of birth)
$e -- Relator term (such as ill.) (R)
$4 -- Relator code (R)

```
Example:    700 1# $a Baldridge, Letitia.
```

710 Added entry -- Corporate name (R)

Indicator 1: Type of corporate name entry element
- 0 -- Inverted name (not used with AACR2)
- 1 -- Jurisdiction name
- 2 -- Name in direct order

Indicator 2: Type of added entry.
- See Indicator 2 under 700
- # -- No information provided
- 2 -- Analytical entry

Subfields used most often:
- **$a** -- Corporate name or jurisdiction name as entry element
- **$b** -- Subordinate unit (R)

```
Example:    710 2# $a Sunburst Communications (Firm)
```

740 Added entry -- Uncontrolled related/analytical title (R)

Indicator 1: Nonfiling characters
- 0-9 -- Number of nonfiling characters present (for initial articles, including spaces)

*Indicator 2:*Type of added entry. See Indicator 2 under 700
- # -- No information provided
- 2 -- Analytical entry
- (This field was redefined in 1994 with Format Integration. Prior to 1994, the field was also used for variant titles, such as a different wording on a spine title. In records created since Format Integration, those variant tiles appear in a 246 field.)

Subfield used most often:
- **$a** -- Title

```
Example:    740 02 $a Uncle Vanya.
```

800 Series added entry -- Personal name (R)

Indicator 1: Type of personal name entry element
- 0 -- Forename
- 1 -- Surname
- 3 -- Family name

Indicator 2 undefined.

Subfields used most often:
- **$a** -- Personal name
- **$b** -- Numeration
- **$c** -- Titles and other words associated with a name (R)
- **$q** -- Fuller form of name

$d -- Dates associated with a name (generally, year of birth)
$t -- Title of a work (the series)
$v -- Volume number

```
Example:    800 1# $a Fisher, Leonard Everett.
                   $t Colonial American craftsmen.
```

830 Series added entry -- Uniform title (R)

Indicator 1 undefined.
Indicator 2: Nonfiling characters
0-9 -- Number of nonfiling characters present (for initial articles, including spaces)
Subfield used most often:
$a -- Uniform title
$v -- Volume number

```
Example:    830 #0 $a Railroads of America (Macmillan)
```

[Back to Top of Page]

Part VIII:

A List of Other Fields Often Seen in MARC Records

001	Control number
003	Control number identifier
005	Date and time of latest transaction
006	Fixed-length data elements -- additional material characteristics
007	Physical description fixed field
008	Fixed length data elements (See Part X)
022	International Standard Serial Number (ISSN)
037	Source of acquisition
041	Language code
043	Geographic area code
050	Library of Congress call number
060	National Library of Medicine call number
082	Dewey Decimal classification number (the one recommended by the Library of Congress; locally-assigned call numbers may appear elsewhere)
110	Main entry -- Corporate name (less frequent under AACR2 rules)
256	Computer file characteristics
263	Projected publication date (indicates a CIP -- Cataloging in Publication -- record)

306 Playing time
508 Creation/production credits note
510 Citation/references note (review sources)
511 Participant or performer note
521 Target audience note (first indicator: 0 = reading grade level, 1 = interest age level, 2 = interest grade level, 3 = special audience characteristics, 4 = motivation interest level)
530 Additional physical form available note
538 System details note
586 Awards note
656 Index term -- Occupation
730 Added entry -- Uniform title
852 Location
856 Electronic location and access
9XX Reserved for local use. (They are used by vendors, systems, or individual libraries to exchange additional data)

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Part IX:

The Leader

There are 24 positions in the Leader, numbered from 00 to 23. For fuller explanation, see the *MARC 21 Format for Bibliographic Data*.

00-04 Record length (calculated by the computer for each record)
05 Record status
- a = increase in encoding level
- c = corrected or revised
- d = deleted
- n = new
- p = increase in encoding from prepublication (previous CIP)

06 Type of record
- a = language material
- c = printed music
- d = manuscript music
- e = cartographic material
- f = manuscript cartographic material
- g = projected medium
- i = nonmusical sound recording
- j = musical sound recording
- k = 2-dimensional nonprojectable graphic
- m = computer file
- o = kit
- p = mixed materials
- r = 3-dimensional artifact or naturally occurring object
- t = manuscript language material

07 Bibliographic level
- a = monographic component part
- b = serial component part

c = collection
d = subunit
i = integrating resource
m = monograph/item
s = serial

08 Type of control
# = no specified type
a = archival

09 Character coding scheme
# = MARC-8
a = UCS/Unicode

10 Indicator count (always "2")

11 Subfield code count (always "2")

12-16 Base address of data (calculated by the computer for each record)

17 Encoding level
# = full level
1 = full level, material not examined
2 = less-than-full level, material not examined
3 = abbreviated level
4 = core level
5 = partial (preliminary) level
7 = minimal level
8 = prepublication level (CIP)
u = unknown
z = not applicable

18 Descriptive cataloging form
# = non-ISBD
a = AACR2
i = ISBD
u = unknown

19 Multipart resource record level
# = Not specified or not applicable
a = Set
b = Part with independent title
c = Part with dependent title

20 Length of the length-of-field portion (always "4")

21 Length of the starting-character-position portion (always "5")

22 Length of the implementation-defined portion (always "0")

23 Undefined (always "0")

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Part X:

Field 008 for Books

Field 008 is used for Fixed Length Data Elements ("Fixed Field Codes"). There are 40 character positions in field 008, numbered from 00-39. Undefined positions must contain either a blank (#) or a fill character (|). Positions 00-17 and 35-39 are defined the same way for all media.

The information shown here for positions 18-34 applies only to books. For explanation of all the positions below and for positions 18-34 for other media, see the *MARC 21 Format for Bibliographic Data*.

Note that field 008 has no indicators or subfield codes.

00-05 Date entered on file (YYMMDD),
where Y=year, M=month, and D=day

06 Type of date/publication status:
- b = no dates given; B.C. date involved
- e = detailed date
- s = single known date/probable date
- m = multiple dates
- r = reprint/reissue date (Date 1) and original date (Date 2)
- n = dates unknown
- q = questionable date
- t = publication date and copyright date
- | = no attempt to code

07-10 Date 1/beginning date of publication

11-14 Date 2/ending date of publication

Date fields contain the year(s) of publication. The type of date(s) in these elements are specified in fixed field element 06: Type of date/publication status. (For further details, see the field 008 description in the *MARC 21 Format for Bibliographic Data*.)

15-17 Place of publication, production, or execution
For example:
- pk# = Pakistan
- cau = California (US)

(For a full list of codes used in these positions, see the *MARC Code List for Countries*.)

18-21 Illustrations (up to 4 codes):
- # = no illustrations
- a = illustrations
- b = maps
- c = portraits
- d = charts
- e = plans
- f = plates
- g = music
- h = facsimiles
- i = coats of arms
- j = genealogical tables
- k = forms
- l = samples
- m = phonodisc, phonowire, etc.
- o = photographs
- p = illuminations
- | = no attempt to code

22 Target audience:
- # = unknown or not specified
- a = preschool

b = primary
c = pre-adolescent
d = adolescent
e = adult
f = specialized
g = general
j = juvenile
| = no attempt to code

23 Form of item:
# = none of the following
a = microfilm
b = microfiche
c = microopaque
d = large print
f = braille
r = regular print reproduction
s = electronic
| = no attempt to code

24-27 Nature of contents (up to 4):
# = no specified nature of contents
a = abstracts/summaries
b = bibliographies (is one or contains one)
c = catalogs
d = dictionaries
e = encyclopedias
f = handbooks
g = legal articles
i = indexes
j = patent document
k = discographies
l = legislation
m = theses
n = surveys of literature
o = reviews
p = programmed texts
q = filmographies
r = directories
s = statistics
t = technical reports
u = standards/specifications
v = legal cases and notes
w = law reports and digests
z = treaties
| = no attempt to code

28 Government publication:
# = not a government publication
i = international intergovernmental
f = federal/national
a = autonomous or semi-autonomous component
s = state, provincial, territorial, dependent, etc.
m = multistate
c = multilocal

l = local
z = other type of government publication
o = government publication -- level undetermined
u = unknown if item is government publication
| = no attempt to code

29 Conference publication:
0 = not a conference publication
1 = conference publication
| = no attempt to code

30 Festschrift:
0 = not a festschrift
1 = festschrift
| = no attempt to code

31 Index:
0 = no index
1 = index present
| = no attempt to code

32 Undefined (since 1990) (Earlier records may contain the values 0 or 1)
= Undefined
| = no attempt to code

33 Literary form:
0 = not fiction (not further specified)
1 = fiction (not further specified)
c = comic strips
d = dramas
e = essays
f = novels
h = humor, satires, etc.
i = letters
j = short stories
m = mixed forms
p = poetry
s = speeches
u = unknown
| = no attempt to code

34 Biography:
# = no biographical material
a = autobiography
b = individual biography
c = collective biography
d = contains biographical information
| = no attempt to code

35-37 Language:
A three-letter code. For example: eng fre ger spa rus ita

(For a full list of codes used in these positions, see the *MARC Code List for Languages*.)

38 Modified record:
# = not modified
x = missing characters (because of characters unavailable in MARC character set)
s = shortened
d = "dashed-on" information omitted

r = completely romanized/printed cards in script
o = completely romanized/printed cards romanized
| = no attempt to code

39 Cataloging source:
# = national bibliographic agency
c = cooperative cataloging program
d = other sources
u = unknown
| = no attempt to code

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[Back to Table of Contents] -- [Continue to Part 11]

Library of Congress

Library of Congress Help Desk (10/27/2009)

APPENDIX 1008A

LIBRARY | CATALOG

Search Navigation ▾ < 8 of 8 >

BOOK

Aerospace sensor systems and applications

Full Record MARC Tags

Personal name

Merhav, Shmuel.

Main title

Aerospace sensor systems and applications / Shmuel Merhav.

Published/Created

New York : Springer, c1996.

Request this Item | LC Find It

Links

Links	Publisher description http://www.loc.gov/catdir/enhancements/fy0815/95051161-d.html

More Information

LCCN Permalink	https://lccn.loc.gov/95051161
Description	xxii, 454 p. : ill. ; 24 cm.
ISBN	0387946055 (New York : hardcover : acid-free paper)

Nintendo Exhibit 1016
Page 0068

LC classification	TL695 .M47 1996
LC Subjects	Avionics. Detectors. Aeronautical instruments. Space vehicles--Guidance systems.
Browse by shelf order	TL695
Notes	Includes bibliographical references and index.
LCCN	95051161
Dewey class no.	629.135
Type of material	Book

Item Availability

CALL NUMBER	TL695 .M47 1996 Copy 1
Request in	Jefferson or Adams Building Reading Rooms
Status	Not Charged

CALL NUMBER	TL695 .M47 1996 FT MEADE Copy 2
Request in	Jefferson or Adams Building Reading Rooms - STORED OFFSITE
Status	Not Charged

Nintendo Exhibit 1016
Page 0069

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BOOK

Aerospace sensor systems and applications

Full Record **MARC Tags**

000		01135cam a2200301 a 4500
001		2562977
005		20080307105202.0
008		951201s1996 nyua b 001 0 eng
906	__	**|a** 7 **|b** cbc **|c** orignew **|d** 1 **|e** ocip **|f** 19 **|g** y-gencatlg
955	__	**|a** pc17 HANDCARRY 12-01-95; jg12 12-01-95; jg08 11-29-95; CIP ver. pv07 03-12-96
010	__	**|a** 95051161
020	__	**|a** 0387946055 (New York : hardcover : acid-free paper)
035	__	**|9** (DLC) 95051161
040	__	**|a** DLC **|c** DLC **|d** DLC
050	00	**|a** TL695 **|b** .M47 1996
082	00	**|a** 629.135 **|2** 20
100	1_	**|a** Merhav, Shmuel.
245	10	**|a** Aerospace sensor systems and applications / **|c** Shmuel Merhav.
260	__	**|a** New York : **|b** Springer, **|c** c1996.
300	__	**|a** xxii, 454 p. : **|b** ill. ; **|c** 24 cm.
504	__	**|a** Includes bibliographical references and index.
650	_0	**|a** Avionics.
650	_0	**|a** Detectors.
650	_0	**|a** Aeronautical instruments.
650	_0	**|a** Space vehicles **|x** Guidance systems.
856	42	**|3** Publisher description **|u** http://www.loc.gov/catdir/enhancements/fy0815/95051161-d.html

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Nintendo Exhibit 1016
Page 0071

APPENDIX 1008B

Copyright United States Copyright Office

Try the Copyright Public Records System (CPRS) pilot with enhanced search features and filters.

Help | Search | History | Titles | Start Over

Public Catalog

Copyright Catalog (1978 to present) at DC4
Search Request: Left Anchored Title = Aerospace sensor systems and applications
Search Results: Displaying 2 of 2 entries

previous next

Labeled View

Aerospace sensor systems and applications / Shmuel Merhav ; with 193 figures.

Type of Work: Text
Registration Number / Date: TX0004200949 / 1996-02-26
Title: Aerospace sensor systems and applications / Shmuel Merhav ; with 193 figures.
Imprint: New York : Springer, c1996.
Description: 454 p.
Copyright Claimant: Springer-Verlag New York, Inc.
Date of Creation: 1996
Date of Publication: 1996-02-02
Names: Merhav, Shmuel
Springer-Verlag New York, Inc.

previous next

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APPENDIX 1008C

Appendix 0004C
Citations to Merhav

Source Document

Merhav, S. (1996). *Aerospace Sensor Systems and Applications*. Springer Science & Business Media.

Citations: 1997 to 1998 (in chronological order)

Davison, D. E. (1997). *Robustness of disturbance attenuation with respect to disturbance model uncertainty*. Doctoral dissertation, University of Michigan.

Juneau, T. N. (1997). *Micromachined dual input axis rate gyroscop.* Doctoral dissertation, University of California, Berkeley.

Ljung, P. B. (1997). *Micromachined gyroscope with integrated electronics*. Doctoral dissertation, University of California, Berkeley.

Oliveira, P., & Pascoal, A. (1998, September). Navigation systems design: an application of multi-rate filtering theory. In *IEEE Oceanic Engineering Society. OCEANS'98. Conference Proceedings (Cat. No. 98CH36259)* (Vol. 3, pp. 1348-1353). IEEE.

Dever, C. W. (1998). *Vehicle model-based filtering for spacecraft attitude determination.* Doctoral dissertation, Massachusetts Institute of Technology.

APPENDIX 1010A

LIBRARY | CATALOG

1 of 1

BOOK

Sensor technology and devices

Full Record MARC Tags

Main title

Sensor technology and devices / edited by Ljubisa Ristic.

Published/Created

Boston : Artech House, c1994.

Request this Item | LC Find It

More Information

LCCN Permalink	https://lccn.loc.gov/94002361
Description	xiv, 524 p. : ill. ; 24 cm.
ISBN	0890065322 :
LC classification	TK7868.I58 S46 1994
Related names	Ristić, Ljubiša.
LC Subjects	Interface circuits. Detectors--Design and construction. Semiconductors.

Browse by shelf order	TK7868.I58
Notes	Includes bibliographical references and index.
LCCN	94002361
Dewey class no.	681/.2
Type of material	Book

Item Availability

CALL NUMBER	TK7868.I58 S46 1994 Copy 1
Request in	Jefferson or Adams Building Reading Rooms
Status	Not Charged

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1 of 1

BOOK

Sensor technology and devices

Full Record **MARC Tags**

000		00994pam a2200265 a 4500
001		2539939
005		19940505121758.9
008		940110s1994 maua b 001 0 eng
035	__	|**9** (DLC) 94002361
906	__	|**a** 7 |**b** cbc |**c** orignew |**d** 1 |**e** ocip |**f** 19 |**g** y-gencatlg
955	__	|**a** pc18 RUSH to ja00 01-10-94; jf10 to subj. 01-10-94; jf08n 01-11-94 to SL; jf14 01-13-94; bk recd jb00 03-15-94; CIP ver. jb11 05-05-94
010	__	|**a** 94002361
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040	__	|**a** DLC |**c** DLC |**d** DLC
050	00	|**a** TK7868.I58 |**b** S46 1994
082	00	|**a** 681/.2 |**2** 20
245	00	|**a** Sensor technology and devices / |**c** edited by Ljubisa Ristic.
260	__	|**a** Boston : |**b** Artech House, |**c** c1994.
300	__	|**a** xiv, 524 p. : |**b** ill. ; |**c** 24 cm.
504	__	|**a** Includes bibliographical references and index.
650	_0	|**a** Interface circuits.
650	_0	|**a** Detectors |**x** Design and construction.
650	_0	|**a** Semiconductors.
700	1_	|**a** Ristić, Ljubiša.
991	__	|**b** c-GenColl |**h** TK7868.I58 |**i** S46 1994 |**p** 00032173202 |**t** Copy 1 |**w** BOOKS

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APPENDIX 1010B

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Public Catalog

Copyright Catalog (1978 to present) at DC4
Search Request: Left Anchored Title = Sensor technology and devices
Search Results: Displaying 1 of 1 entries

previous next

Labeled View

Sensor technology and devices / edited by Ljubisa Ristic.

Type of Work: Text
Registration Number / Date: TX0003830733 / 1994-05-26
Title: Sensor technology and devices / edited by Ljubisa Ristic.
Imprint: Boston : Artech House, c1994.
Description: 524 p.
Copyright Claimant: Artech House, Inc.
Date of Creation: 1994
Date of Publication: 1994-02-28
Names: Ristic, Ljubisa
Artech House, Inc.

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APPENDIX 1010C

Appendix 1010C
Citations to Ristic

Source Document

Sensor Technology and Devices (1994). Edited by Ljubisa Ristic. Boston : Artech House.

Citations: 1994 – 1995 (in chronological order)

Cai, S., & Filanovsky, I. M. (1994, August). High precision voltage-to-frequency converter. In *Proceedings of 1994 37th Midwest Symposium on Circuits and Systems* (Vol. 2, pp. 1141-1144). IEEE.

Rudolf, F., & De Lambilly, H. (1995, March). Low-cost pressure sensor microsystem. *Microsystem Technologies*, *1*, 84-87.

Satuby, Y., Ben-Yehuda, U., Jakobson, C. G., Shneider, J., Lavie, D., Nemirovsky, Y., ... & Netzer, E. (1995, March). Electrostatically driven micro resonator with a CMOS capacitive read out. In *Eighteenth Convention of Electrical and Electronics Engineers in Israel* (pp. 2-5). IEEE.

Kim, Y., & Neikirk, D. P. (1995, August). Design for manufacture of micromachined fabry—pérot cavity-based sensors. *Sensors and Actuators A: Physical*, *50*(1-2), 141-146.

Kloeck, B., & Degrauwe, M. (1995, September). Approach to microsystem design. *Sensors: Micro-and Nanosensor Technology-Trends in Sensor Markets*, *8*, 23-50.

APPENDIX 1010D

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24 May 1997 - 19 Jan 2024

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Library Catalogues on the World Wide Web

Created by Peter Scott and Doug Macdonald

University of Saskatchewan Libraries

- Geographical Index
- Library-Type Index
- Vendor Index
- Vendor Home Pages
- Z39.50 Resources
- Related Resources
- What's New?
- Add Your Catalogue
- Search
- webCATS Usage Statistics
- Link to HYTELNET
- Link to Publishers' Catalogues

The content is compiled by Peter Scott, the programming is by Doug Macdonald, who both work in the University of Saskatchewan Library.

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20 captures
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24
1996 1997 1999
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Government

- Biblioteca de Castilla y Leon (Spain)
- Biblioteca de Catalunya (Spain)
- British Columbia Government IT Library (Canada)
- Canadian Department of Foreign Affairs
- Canadian Department of Human Resources Development
- Crown Research Institutes Union Catalogue (New Zealand)
- Danish National Library for Science and Medicine (Denmark)
- Department of Archives & History (Georgia)
- Department of Economic Security (Minnesota)
- Department of Health (Minnesota)
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The Wayback Machine - https://web.archive.org/web/19970524205355/http://library.usask.ca:80/hywebcat/libtypes/G.html

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- Danish National Library for Science and Medicine (Denmark)
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- Department of Economic Security (Minnesota)
- Department of Health (Minnesota)
- Department of Human Services (Minnesota)
- Department of Natural Resources (Minnesota)
- Department of Revenue (Minnesota)
- Department of Trade & Economic Development (Minnesota)
- Department of Transportation (Minnesota)
- Educational Resource Center (Dept. of CFL) (Minnesota)
- Federal Bureau of Prisons (Washington, D.C.)
- General Services Administration (Washington, D.C.)
- Geological Survey of Canada (Earth Sciences Sector)
- Intergovernmental Committee on Urban and Regional Research (Canada)
- Kansas State Library
- Legislative Reference Library (Minnesota)
- Library of Congress (Washington, D.C.)
- Library of Michigan
- Library of the Polish Parliament (Poland)
- Martynas Mazvydas National Library (Lithuania)
- NASA Langley Research Center (Alabama)
- National Archives of Namibia
- National Central Library (South Korea)
- National Library of Australia
- National Library of Czech Republic
- National Library of Education (Denmark)
- Office of the Attorney General (Minnesota)
- Prince Edward Island Provincial Library (Canada)
- South Dakota State Library
- State Library of South Australia
- State Technical Library (Czech Republic)
- U.S. Department of State
- United States Information Agency (Washington, D.C.)

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The LIBRARY of CONGRESS
Catalogs

The Library provides **four different methods** for searching its catalogs. Each method is briefly described below; choose the *About* pages for more detail.
[Spanish Translation of this Page]

Information About:
Word Search | Browse Search | Command Search | Experimental Search System
List of: Other Research Tools | Other Library Services

WORD SEARCH

Use **fill-in forms** through the World Wide Web to search for specific **words** or **numbers** in the Library's catalogs. This Z39.50 Gateway provides a simple search form for author and title queries and an advanced search form allowing the use of Boolean operators (and, or, and not), with searches for subjects, names, titles, series, notes, and various numbers. Some of these records have direct links to digitized materials.

Simple Name/Title Word Search | Advanced Word Search
About Word Searching With Z39.50

The Wayback Machine - https://web.archive.org/web/19980120124127/http://lcweb.loc.gov:80/catalog/

The LIBRARY of CONGRESS Catalogs

The Library provides **four different methods** for searching its catalogs. Each method is briefly described below; choose the *About* pages for more detail.

[Spanish Translation of this Page]

Information About:
Word Search | Browse Search | Command Search | Experimental Search System
List of: Other Research Tools | Other Library Services

WORD SEARCH

Use **fill-in forms** through the World Wide Web to search for specific **words** or **numbers** in the Library's catalogs. This Z39.50 Gateway provides a simple search form for author and title queries and an advanced search form allowing the use of Boolean operators (and, or, and not), with searches for subjects, names, titles, series, notes, and various numbers. Some of these records have direct links to digitized materials.

Simple Name/Title Word Search | Advanced Word Search
About Word Searching With Z39.50

HOURS: Monday-Friday (4:40 a.m.-9:30 p.m.), Saturday (8:00 a.m.-5:00 p.m.), Sunday (8:00 a.m.-4:30 p.m.) *All times USA Eastern*
FILES: books, serials, music and sound recordings, cartographic materials, visual materials, computer files, manuscripts, thesauri of names and subjects, in-process books, NUC 1982-1993, PreMARC

BROWSE SEARCH

Use **fill-in forms** through the World Wide Web to browse and then select from alphabetical indexes for the Library's catalogs, including subject cross references. Browse by subject, author (personal, corporate), conference, title, series, Library of Congress Classification (partial call number), Dewey Decimal Number. Also, search for exact standard numbers like International Standard Book Number (ISBN), International Standard Serial Number (ISSN), and Library of Congress Control Number.

Browse Search Selection Screen | About Browse Searching

HOURS: Monday-Friday (24 hours), Saturday (until 5:00 p.m.), Sunday (after 11:00 a.m.) *All times USA Eastern*
FILES: books, serials, cartographic materials, subject cross references; does **not** at this time include the other catalog files for music and sound recordings, visual materials, computer files, manuscripts, thesauri of names, in-process books, and NUC 1982-1993

COMMAND SEARCH

Use **commands** that you type to search for **words** and to **browse** indexes for the Library's catalogs, and for additional non-catalog files. This method provides access to LOCIS (Library of Congress Information System, the original mainframe-based retrieval system), with browsable indexes, word searches, Boolean combinations, various display options, set creation, and advanced features for limiting and refining search results. This method **requires** the Internet TELNET function (either telnet or tn3270) in order to connect to LOCIS. The TELNET capability comes with most WWW browsers, but must be configured.

TELNET to LOCIS | TN3270 to LOCIS | About LOCIS

HOURS: Monday-Friday (24 hours) **not all files are available after 9:30 p.m.*, Saturday (until 5:00 p.m.), Sunday (after 11:00 a.m.) **possible maintenance 5-8 p.m. All times USA Eastern*
FILES: books, serials, music and sound recordings, cartographic materials, visual materials, computer files, manuscripts, thesauri of names and subjects, in-process books, NUC 1982-1993, PreMARC, catalog records from some other research libraries, and records for some bibliographies; non-catalog files include records for federal legislation, copyright information, braille and audio, and foreign law

EXPERIMENTAL SEARCH SYSTEM

The Experimental Search System (ESS), currently located in the LC WEB research and development area, supports relevancy-ranked searching of catalog records, as well as sorting and emailing search results. Special search features include analyzing results by subject heading and "browsing" the shelf for items with similar LC call numbers. Some of these records have direct links to digitized materials, including selected fulltext, image, video and audio files, at the Library of Congress and elsewhere. This is a test system and results may not be all inclusive.

Use ESS | Special Features | ESS Developments

HOURS: 7 days a week, 24 hours a day
FILES: books, serials, music and sound recordings, cartographic materials, visual materials, computer files, manuscripts, digital objects (multimedia)

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Handbook of Latin American Studies
Vietnam War Era POW/MIA Database
THOMAS: US Legislative Information
GLIN: Global Legal Information Network
US Copyright Office
Search Tools for Blind and Physically Handicapped Persons
American Memory Historical Collections
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