

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

MASIMO CORPORATION
Petitioner,

v.

APPLE INC.
Patent Owner.

Case No. IPR2023-00664
U.S. Patent No. 11,106,352

DECLARATION OF SYLVIA D. HALL-ELLIS, Ph.D.

I, Sylvia D. Hall-Ellis, declare as follows:

I. INTRODUCTION

1. My name is Sylvia D. Hall-Ellis. I have been retained as an expert by Masimo, Corp., the Petitioner.

2. I have written this declaration at the request of the Petitioner to provide my expert opinion regarding the authenticity and public availability of several books. My declaration sets forth my opinions in detail and provides the basis for my opinions regarding the authenticity and public availability of these publications. If called to testify in the above-captioned proceeding, I will testify regarding the opinions and bases set forth below.

3. I reserve the right to supplement or amend my opinions, and bases for them, in response to any additional evidence, testimony, discovery, argument, and/or other additional information that may be provided to me after the date of this declaration.

4. I am being compensated for my time spent working on this matter at my normal consulting rate of \$350 per hour, plus reimbursement for any additional reasonable expenses. My compensation is not in any way tied to the content of this declaration, the substance of my opinions, or the outcome of this proceeding. I have no other interests in this proceeding or with any of the parties.

5. All the materials that I considered and relied upon are discussed explicitly in this declaration.

II. QUALIFICATIONS

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

7. I am a member of the American Library Association (ALA) and its Association for Library Collections & Technical Services (ALCTS) Division, and I served on the Committee on Cataloging: Resource and Description (which wrote the new cataloging rules) and as the chair of the Committee for Education and Training of Catalogers and the Competencies and Education for a Career in Cataloging Interest Group. I also served as the founding Chair of the ALCTS Division's Task Force on Competencies and Education for a Career in Cataloging. Additionally, I have served as the Chair for the ALA Office of Diversity's Committee on Diversity, as a member of the REFORMA National Board of Directors, as a member of the Editorial Board for the ALCTS premier cataloging

journal, *Library Resources and Technical Services*, and as a Co-Chair of the Membership Committee for the Library Research Round Table (LRRT) of the American Library Association. Currently I serve as a member of the LRRT Nominating Committee.

8. I have also given over one hundred presentations in the field, including several on library cataloging systems and Machine-Readable Cataloging (“MARC”) standards. My current research interests include library cataloging systems, metadata, and organization of electronic resources. I have been deposed twenty-seven times: (1) *Symantec Corp. v. Finjan, Inc.*, Petition for *Inter Partes Review* of U.S. Patent No. 7,613,926, May 26, 2016, on behalf of Symantec Corp.; (2) *Symantec Corp. v. Finjan, Inc.*, 14-cv-299-HSG (N.D. Cal.), on behalf of Symantec Corp., September 14, 2017; (3) one deposition for ten matters: *Intellectual Ventures I LLC v. AT&T Mobility LLC*; AT&T Mobility II LLC, New Cingular Wireless Services, Inc., SBC Internet Services, Inc., Wayport, Inc., and Cricket Wireless LLC, C.A. No. 12-193 (LPS); *Intellectual Ventures II LLC v. AT&T Mobility LLC*; AT&T Mobility II LLC, New Cingular Wireless Services, Inc., SBC Internet Services, Inc., Wayport, Inc., and Cricket Wireless LLC, C.A. No. 13-1631 (LPS); *Intellectual Ventures I LLC v. T-Mobile USA, Inc. and T-Mobile US, Inc.*, C.A. No. 13-1632 (LPS); *Intellectual Ventures II LLC v. T-Mobile USA, Inc. and T-Mobile US, Inc.*, C.A. No. 13-1633

(LPS); *Intellectual Ventures I LLC, v. Nextel Operations, Inc., Sprint Spectrum L.P., Boost Mobile, LLC and Virgin Mobile USA, L.P.*, C.A. No. 13-1634 (LPS); *Intellectual Ventures II LLC v. Nextel Operations, Inc., Sprint Spectrum L.P., Boost Mobile, LLC and Virgin Mobile USA, L.P.*, C.A. No. 13-1635 (LPS); *Intellectual Ventures I LLC, v. United States Cellular Corporation*, C.A. No. 13-1636 (LPS); *Intellectual Ventures I LLC v. United States Cellular Corporation*, C.A. No. 13-1637 (LPS); *Intellectual Ventures II LLC v. AT&T Mobility LLC, AT&T Mobility II LLC, New Cingular Wireless Services, Inc.*, C.A. No. 15-799 (LPS); *Intellectual Ventures I LLC v. T-Mobile USA, Inc. and T-Mobile US, Inc.*, C.A. No. 15-800 (LPS), on behalf of AT&T Mobility LLC; AT&T Mobility II LLC, Boost Mobile, LLC Cricket Wireless LLC, Nextel Operations, Inc., New Cingular Wireless Services, Inc., SBC Internet Services, Inc., Sprint Spectrum L.P., T-Mobile USA, Inc., T-Mobile US, Inc., United States Cellular Corporation Virgin Mobile USA, L.P., and Wayport, Inc., November 15, 2016; (4) *Hitachi Maxell, LTD., v. Top Victory Electronics (Taiwan) Co. Ltd., et al.*, 2:14-cv-1121 JRG-RSP (E.D. Texas), on behalf of Top Victory Electronics (Taiwan) Co. LTD, *et. al.*, January 20, 2016; (5) *Sprint Spectrum, L.P. v. General Access Solutions, Ltd.*, Petition for *Inter Partes Review* of U.S. Patent No. 7,173,916, on behalf of Sprint Spectrum L.P., July 13, 2018; (6) *Nichia Corporation v. Vizio, Inc.*, 8:16-cv-00545; on behalf of Vizio, Inc., October 12, 2018; (7) *Intellectual Ventures I*

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

Corporation, District of Delaware, 1:18-cv-00966-CFC-CJB, February 5, 2021, on behalf of the Intel Corporation; (17) *Unified Patents, LLC v. Good Kaisha IP Bridge I*, Petition for *Inter Partes Review* of U. S. Patent 7,817,868, February 11, 2021, on behalf of Unified Patents; (18) *Finjan, Inc. v. Qualsys, Inc.*, Northern District of California, 4:18-cv-07229-YGR, March 1, 2021, on behalf of Qualsys, Inc.; (19) *Qualcomm, Inc. v. Monterey Research LLC*, Petition for *Inter Partes Review* of U. S. Patent 6,534,805, May 6, 2021, on behalf of Qualcomm, Inc.; (20) *Hulu, LLC v. Sound View Innovations, LLC*, Petition for *Inter Partes Review* of U. S. Patent 5,806,062, May 14, 2021, on behalf of Hulu, LLC; (21) *VLSI Technology LLC v. Intel Corporation*, Western District of Texas, 6:19-cv-00254, 6:19-cv-00255 and 6:19-cv-00256, August 3, 2021, on behalf of Intel Corporation; (22) *Liquidia Technologies, Inc. v. United Therapeutics Corporation*, Petition for *Inter Partes Review* of U. S. Patent 10,716,793 B2, October 20, 2021, on behalf of Liquidia Technologies, Inc.; (23) *EcoFactor, Inc. v. Google, Inc.*, Western District of Texas, 6:20-cv-00075 (ADA), 6:20-0078-ADA, and 6:20-cv-00080 ADA, October 27, 2021, on behalf of Google, Inc.; (24) *Liquidia Technologies, Inc. v. United Therapeutics Corporation*, Petition for *Inter Partes Review* of U. S. Patent 10,716,793 B2, March 11, 2022, on behalf of Liquidia Technologies, Inc.; (25) *Juniper Networks, Inc. v. Swarm Technology LLC*, Petition for *Inter*

Partes Review of U. S. Patent 9,852,004, May 5, 2022, on behalf of Juniper Networks, Inc.; (26) *ParkerVision, Inc. v. Intel Corporation*, Western District of Texas, 6:20-cv-108 (ADA), October 26, 2022, on behalf of the Intel Corporation; and, (27) *CommScope v. TQ Delta*, Petition for *Inter Partes Review* of U. S. Patents 9,094,348 and 10,833,809, February 16, 2023, on behalf of CommScope.

9. Exhibit 1032 is a true and correct copy of my *curriculum vitae*.

III. PRELIMINARIES

A. Scope of Declaration and Legal Standards

10. I am not an attorney and will not offer opinions on the law. I am, however, rendering my expert opinion on the authenticity of the documents referenced herein and on when and how each of these documents was disseminated or otherwise made available to the extent that persons interested and ordinarily skilled in the subject matter or art, exercising ordinary diligence, could have located the documents by May 16, 2017.

11. I am informed by counsel that a printed publication qualifies as publicly accessible as of the date it was disseminated or otherwise made available such that a person interested in and ordinarily skilled in the relevant subject matter could locate it through the exercise of ordinary diligence.

12. While I understand that the determination of public accessibility under

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

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

B. Persons of ordinary skill in the art.

14. I am told by counsel that the subject matter of this proceeding relates to a touchscreen user interface that uses gestures to navigate between different screens on a smartphone or similar electronic device.

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

16. I am told by counsel that persons of ordinary skill in this subject matter or art would have had at least a bachelor’s degree in a discipline related to human-computer interaction, such as Human Factors, Computer Science, Computer Engineering, or an equivalent discipline, and at least two years of experience working with touchscreen user interfaces. More education could substitute for less work experience, and vice-versa.. I have been further informed by counsel that a person of ordinary skill in the art would have been familiar with and able to understand the information known in the art relating to these fields, including the publications discussed in this declaration.

17. It is my opinion that such a person would have been engaged in research, learning, study, and practice in the field, and formal instruction so that

bibliographic resources relevant to his or her research would be familiar. By May 16, 2017, such a person would have had access to a vast array of long-established print resources in the relevant field as well as to a rich set of online resources providing indexing information, abstracts, and full text services.

IV. LIBRARY PROFESSIONAL PRACTICES

18. In preparing this declaration, I used authoritative databases, such as the OCLC bibliographic database, the Library of Congress Online Catalog, and the Library of Congress Subject Authorities, to confirm citation details of the various publications discussed. Unless I note otherwise below in reference to a specific serial publication, it is my expert opinion that this standard protocol was followed for the serial publication discussed below.

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

20. Indexing services use a wide variety of controlled vocabularies to

provide subject access and other means of discovering the content of documents. The Library of Congress Subject Authorities includes standard forms of terms and cross references that are included in bibliographic records. Subject headings are terms that an individual seeking a document regardless of format can enter in the search bar of the online catalog. Subjects also connect an authenticated term (one included in the Library of Congress subject headings list) with related, broader, and narrower terms. The formats in which these access terms are presented vary from service to service.

21. Online indexing services commonly provide bibliographic information, abstracts, and full-text copies of the indexed publications, along with a list of the documents cited in the indexed publication. These services also often provide lists of publications that cite a given document. A citation of a document is evidence that the document was publicly available and in use by researchers no later than the publication date of the citing document. Prominent indexing services include *Scopus*, the *IEEE Xplore* database, the *ACM Digital Library*, *Google Scholar*, and the *Internet Archive*.

V. LIBRARY CATALOGING PRACTICES

22. I am fully familiar with the library cataloging standard known as the MARC standard, which is an industry-wide standard method of storing and

organizing library catalog information.¹ MARC was first developed in the 1960's by the Library of Congress. A MARC-compatible library is one that has a catalog consisting of individual MARC records for each of its items. Today, MARC is the primary communications protocol for the transfer and storage of bibliographic metadata in libraries.²

23. Since at least the early 1970s and continuing to the present day, MARC has been the primary communications protocol for the transfer and storage

¹ The full text of the standard is available from the Library of Congress at <http://www.loc.gov/marc/bibliographic/> (last visited January 29, 2022).

² Almost every major library in the world is MARC-compatible. *See, e.g., MARC Frequently Asked Questions (FAQ)*, Library of Congress, <https://www.loc.gov/marc/faq.html> (last visited January 29, 2022) (“MARC is the acronym for Machine-Readable Cataloging. It defines a data format that emerged from a Library of Congress-led initiative that began nearly fifty years ago. It provides the mechanism by which computers exchange, use, and interpret bibliographic information, and its data elements make up the foundation of most library catalogs used today.”). MARC is the ANSI/NISO Z39.2-1994 (reaffirmed 2016) standard for Information Interchange Format.

of bibliographic metadata in libraries.³ As explained by the Library of Congress:

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

25. Using the MARC standard also enables libraries to make use of commercially available library automation systems to manage library operations. Many systems are available for libraries of all sizes and are designed to work with the MARC format. Systems are maintained and improved by the vendor so that libraries can benefit from the latest advances in computer technology. The MARC standard also allows libraries to replace one system with another with the

³ A complete history of the development of MARC can be found in *MARC: Its History and Implications* by Henrietta D. Avram (Washington, DC: Library of Congress, 1975) and available online from the Hathi Trust (<https://babel.hathitrust.org/cgi/pt?id=mdp.39015034388556;view=1up;seq=1>; last visited January 29, 2022).

assurance that their data will still be compatible.

26. The importance of MARC records is presented in the document titled *Why Is a MARC Record Necessary?* from the Library of Congress.⁴ Thus, almost every major library in the world is MARC-compatible. *See, e.g., MARC Frequently Asked Questions (FAQ)*, LIBRARY OF CONGRESS.⁵ (“MARC is the acronym for MACHine-Readable Cataloging. It defines a data format that emerged from a Library of Congress-led initiative that began fifty years ago. It provides the mechanism by which computers exchange, use, and interpret bibliographic information, and its data elements make up the foundation of most library catalogs used today.”). MARC is the ANSI/NISO Z39.2-1994 standard (reaffirmed in 2016) for Information Interchange Format. The full text of the standard is available from the Library of Congress.⁶

27. A MARC record comprises several fields, each of which contains specific data about the work. Each field is identified by a standardized, unique, three-digit code corresponding to the type of data that follow. For example, a work’s title is recorded in Field 245; the primary author of the work is transcribed in Field 100; an item’s International Standard Book Number (“ISBN”) consisting

⁴ <http://www.loc.gov/marc/umb/um01to06.html#part2>

⁵ <https://www.loc.gov/marc/faq.html>

⁶ <http://www.loc.gov/marc/bibliographic/>

of ten or thirteen digits is transcribed in Field 020; an item's International Standard Serial Number ("ISSN") is transcribed in Field 022; the Library of Congress classification notation is recorded in Field 050; and the publication date is recorded in Field 260 under the subfield "c." If a work is a periodical, then its publication frequency is recorded in Field 310, and the publication dates (e.g., the first and last publication) are recorded in Field 362, which is also referred to as the enumeration/chronology field.⁷

28. The library that created the record is recorded in Field 040 in subfield "a" with a unique library code. When viewing the MARC record online via Online Computer Library Center's ("OCLC") bibliographic database, hovering over this code with the mouse reveals the full name of the library. I used this method of "mousing over" the library codes in the OCLC database to identify the originating library for the MARC records discussed in this declaration. Where this "mouse over" option was not available, I consulted the Directory of OCLC Libraries to identify the institution that created the MARC record.⁸

29. MARC records also include several fields that include subject matter classification information. An overview of MARC record fields is available

⁷ <http://www.loc.gov/marc/bibliographic/bd3xx.html>

⁸ <https://www.oclc.org/en/contacts/libraries.html>

through the Library of Congress.⁹ For example, 6XX fields are termed “Subject Access Fields.”¹⁰ Among these, for example, is the 650 field; this is the “Subject Added Entry – Topical Term” field.¹¹ The 650 field is a “[s]ubject added entry in which the entry element is a topical term.” These entries “are assigned to a bibliographic record to provide access according to generally accepted thesaurus-building rules (e.g., *Library of Congress Subject Headings* (LCSH), *Medical Subject Headings* (MeSH)).” *Id.* Further, MARC records include call numbers, which themselves include a classification number. For example, the 050 field is the “Library of Congress Call Number.”¹² A defined portion of the Library of Congress Call (LCC) Number is the classification number, and “source of the classification number is *Library of Congress Classification* and the *LC Classification-Additions and Changes*.” Thus, included in the 050 field is a subject matter classification. Further, the 082 field is the “Dewey Decimal Call Number.”¹³ A defined portion of the Dewey Decimal Call (DDC) Number is the classification number, and “source of the classification number is the *Dewey Decimal*

⁹ <http://www.loc.gov/marc/bibliographic/>

¹⁰ <http://www.loc.gov/marc/bibliographic/bd6xx.html>

¹¹ <http://www.loc.gov/marc/bibliographic/bd650.html>

¹² <http://www.loc.gov/marc/bibliographic/bd050.html>

¹³ <http://www.loc.gov/marc/bibliographic/bd082.html>

Classification and Relative Index.” Thus, included in the 082 field is a subject matter classification. Each item in a library has a single classification number. A library selects a classification scheme (e.g., the Library of Congress classification scheme just described or a similar scheme such as the Dewey Decimal classification scheme) and uses it consistently. When the Library of Congress assigns the LCC classification number, it appears as part of the 050 field. When the Library of Congress assigns the DDC classification number, it appears as part of the 082 field. If a local library assigns the classification number, it appears in a 090 field. In either scenario, the MARC record includes a classification number that represents a subject matter classification.

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

literary and educational knowledge and information.”¹⁴ Among other services, OCLC and its members are responsible for maintaining the WorldCat database (<http://www.worldcat.org/>), used by independent and institutional libraries throughout the world.

31. OCLC also provides its members online access to MARC records through its OCLC bibliographic database. When an OCLC member institution acquires a work, it creates a MARC record for this work in its computer catalog system in the ordinary course of its business. MARC records created at the Library of Congress are tape-loaded into the OCLC database through a subscription to MARC Distribution Services daily or weekly. Once the MARC record is created by a cataloger at an OCLC member institution or is tape-loaded from the Library of Congress, the MARC record is then made available to any other OCLC members online, and therefore made available to the public. Accordingly, once the MARC record is created by a cataloger at an OCLC member institution or is tape-loaded from the Library of Congress or another library anywhere in the world, any publication corresponding to the MARC record has been cataloged and indexed according to its subject matter such that a person interested in that subject matter

¹⁴ Third Article, Amended Articles of Incorporation of OCLC Online Computer Library Center, Incorporated (available at <https://www.oclc.org/content/dam/oclc/membership/articles-of-incorporation.pdf>).

could, with reasonable diligence, locate and access the publication through any library with access to the OCLC bibliographic database or through the Library of Congress.

32. When an OCLC member institution creates a new MARC record, OCLC automatically supplies the date of creation for that record. The date of creation for the MARC record appears in the fixed Field (008), characters 00 through 05. The MARC record creation date reflects the date on which, or shortly after which, the item was first acquired or cataloged. Initially, Field 005 of the MARC record is automatically populated with the date the MARC record was created in year, month, day format (YYYYMMDD) (some of the newer library catalog systems also include hour, minute, second (HHMMSS)). Thereafter, the library's computer system may automatically update the date in Field 005 every time the library updates the MARC record (*e.g.*, to reflect that an item has been moved to a different shelving location within the library). Field 005 is visible when viewing a MARC record via an appropriate computerized interface, but when a MARC record is printed to hardcopy, no "005" label appears. The initial Field 005 date (*i.e.*, the date the MARC record was created) does appear, however, next to the label "Entered."¹⁵ The date upon which the most recent update to Field 005

¹⁵ Field 005 is visible when viewing a MARC record via an appropriate computerized interface. But when a MARC record is printed directly to hardcopy

occurred also appears, next to the label “Replaced.” Thus, when an item’s MARC record has been printed to hardcopy—as is the case with the exhibits to this declaration—the date reflected next to the label “Entered” is necessarily on or after the date the library first cataloged and indexed the underlying item.

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

34. Catalogers can create MARC records for all types of print, online, and digital resources. The date of creation of the MARC record by a cataloger at an OCLC member institution reflects when the underlying item is accessible to the public. Upwards of two-thirds to three-quarters of book sales to libraries come from a jobber or wholesaler for online and print resources. These resellers make it

from the OCLC database, the “005” label is not shown. The date in the 005 field instead appears next to the label “Replaced.”

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

VI. PUBLICATION 1: *The Design of Everyday Things* by Donald A. Norman. Exhibit 1012 (“Norman”)

35. Exhibit 1012 is a copy of the title page, copyright page, and an excerpt from a book titled *The Design of Everyday Things* by Donald A. Norman (hereafter “Norman”) and issued by Doubleday with a 1988 copyright date. Exhibit 1012 is a true and correct copy of an excerpt titled “Chapter 1, The Psychopathology of Everyday Things” which appears on pages 13 through 17. Within the excerpted pages of Exhibit 1012, no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1012 is a true and correct copy in a condition that creates no suspicion about its authenticity.

36. Attachment 1a is a true and correct copy of the MARC record for this book from the online catalog at the University of Wisconsin – Madison Libraries.

The library ownership is indicated by the presence of the library code (uwmadisondb) in the third field 035. The cataloger at the University of Wisconsin – Madison Libraries used a MARC record for this book that was originally submitted for cataloging to the Library of Congress as part of the Cataloging in Publication program¹⁶ on November 15, 1989, as shown in field 008 (“891115”) and assigned a Library of Congress Control Number (89048989) as shown in field 010 of Attachment 1b. A cataloger prepared basic information about the forthcoming book which is included on the verso of the title page (also called the copyright page). The information is provided to save time needed for the cataloging process at a library after the book is purchased. The CIP data includes the author (field 100), title (field 245), edition statement (field 250), ISBN (field 020), subject headings (field 650), classification numbers for the Library of Congress classification number (field 050), and the Dewey Decimal classification number (field 082). These data elements are included in the MARC record that the Library of Congress contributed to the OCLC bibliographic database.

37. The library continues to update and enhance the MARC record to meet current cataloging rules. The most recent enhancement to the MARC record occurred on June 27, 2019, as shown in the field 005 (“20190627”) of Attachment 1a. I personally identified and retrieved the library catalog record which is

¹⁶ <https://www.loc.gov/publish/cip/>

Attachment 1a.

38. Based on finding a print copy of the book titled *The Design of Everyday Things* in the University of Wisconsin – Madison Libraries and MARC record in its online library catalog attached as Attachment 1a, it is my opinion that the Norman book was publicly available after November 15, 1989, as shown in field 008 (“891115”). The International Standard Book Number (ISBN) on Exhibit 1012 (0-385-26774-6) matches the ISBN in the field 020 of Attachment 1a. Therefore, Exhibit 1012 is the same book as the one that the cataloger at the University of Wisconsin – Madison Libraries used to create the MARC record that is Attachment 1a.

39. Attached hereto as Attachment 1c is a true and correct copy of the MARC record for the volume titled *The Design of Everyday Things* obtained from the OCLC bibliographic database. As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger at the Library of Congress created OCLC record number 20755210 on November 15, 1989, as shown in the “Entered” field (“19891115”).

40. Attachment 1c further includes an entry in field 050 (“TS171.4 \$b .N67 1990”) as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 (“TS171.4 \$b

.N842p 1990”), a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 (“620.8/2”), a subject matter consistent with the Dewey Decimal classification system. Attachment 1c further includes three descriptor terms reading “Industrial design \$x Psychological aspects” (see Attachment 1d, Library of Congress subject heading sh85037199 and Attachment 1e, Library of Congress subject heading sh85108436), “Human engineering” (see Attachment 1f, Library of Congress subject heading sh85062867), and “Psychology, Industrial” (see Attachment 1g, Library of Congress subject heading sh85108476) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 1c was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082 entry, and the field 650 entries. Further, as of November 15, 1989, the MARC record attached hereto as Attachment 1c was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that added this book to its collection, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

41. Further supporting my opinion that Exhibit 1012 was publicly

accessible to ordinarily skilled and interested researchers in the field is the fact that the book titled *The Design of Everyday Things* was registered with the U. S. Copyright Office as item TX0002767206 on March 7, 1990, and indicated a publication date of March 1, 1990 (see Attachment 1h, U. S. Copyright Office Public Catalog). As noted above, this would have provided a POSITA with keyword searching capabilities and other tools to locate this book.

42. Attachment 1c indicates that the book titled *The Design of Everyday Things* as cataloged at the Library of Congress is currently available from 623 libraries. In view of above, the book titled *The Design of Everyday Things* was publicly available after March 1, 1990, because by that date it had been cataloged and indexed at the Library of Congress, made part of the OCLC bibliographic database, and received at the University of Wisconsin – Madison Libraries. For these reasons, it is my opinion that Exhibit 1012 was published and accessible to the public on or shortly after March 1, 1990.

VII. PUBLICATION 2: “Enhancing the Explanatory Power of Usability Heuristics” by Jakob Nielsen. Exhibit 1014 (“Nielsen”)

43. Exhibit 1014 is a copy of the title page, copyright page, and a conference paper titled “Enhancing the Explanatory Power of Usability Heuristics” by Jakob Nielsen (hereafter “Nielsen”) from a book titled *CHI '94 Conference Proceedings: Human Factors in Computing Systems: “Celebrating Interdependence”* edited by Beth Adelson, Susan Dumais, and Judith Olson and

issued by the Association for Computing Machinery in 1994. The CHI '94 Conference: Human Factors in Computing System was held on April 24-28, 1994, in Boston, Massachusetts. Exhibit 1014 is a true and correct copy of the Nielsen conference paper (pages 152-158). I obtained this copy of the conference paper from the University of California – Los Angeles Libraries. Specifically, the text of the Nielsen conference paper is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1014 was found within the custody of a library – a place where, if authentic, a copy of this conference proceedings volume would likely be. Exhibit 1014 is a true and correct copy in a condition that creates no suspicion about authenticity.

44. The Nielsen conference paper is also available in the *ACM Digital Library*¹⁷ and *Semantic Scholar*.¹⁸ The *ACM Digital Library* website indicates that the conference proceedings volume was published on April 24, 1994.

45. Attached hereto as Attachment 2a is a true and correct copy of the MARC record for this conference proceedings volume from the University of

¹⁷ <https://dl.acm.org/doi/10.1145/191666.191729>

¹⁸ <https://www.semanticscholar.org/paper/Enhancing-the-explanatory-power-of-usability-Nielsen/baa0ee95aee2e11708afed8f59740bb67f804687>

California – Los Angeles Libraries online catalog.¹⁹ The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to the MARC record occurred on August 7, 2021, as shown in field 005 (“20210807”). I personally identified and retrieved the library catalog record which is Attachment 2a.

46. Based on finding a print copy of the book titled *CHI '94 Conference Proceedings: Human Factors in Computing Systems: “Celebrating Interdependence”* in the University of California – Los Angeles Libraries and MARC record in its online library catalog attached as Attachment 2a, it is my opinion that the Nielsen conference paper was publicly available after April 24, 1994, in the *ACM Digital Library*. The International Standard Book Number (ISBN) on Exhibit 1014 (978-0-89791-650-9) matches the ISBN in the field 020 of Attachment 2a. Therefore, Exhibit 1014 is the same book as the one that the cataloger at the University of California – Los Angeles Libraries used to create the MARC record that is Attachment 2a.

47. Attached hereto as Attachment 2b is a true and correct copy of the

¹⁹

https://search.library.ucla.edu/discovery/fulldisplay?docid=cdi_yonsei_eresources_90369&context=PC&vid=01UCS_LAL:UCLA&lang=en&search_scope=Articles_BooksMore&adaptor=Primo%20Central&tab=Articles_books_more_slot&query=any,contains,978-0-89791-650-9&offset=0

MARC record for the volume titled *CHI '94 Conference Proceedings: Human Factors in Computing Systems: "Celebrating Interdependence"* obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 2b. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 2b, that library code is "NUI," which means that the MARC record for this conference proceedings volume was cataloged at the University of Iowa Libraries (Iowa City, Iowa). As can be seen in the "Entered" field in the MARC record for this exhibit, a cataloger at the University of Iowa Libraries created OCLC record number 38913370 on June 6, 1995, as shown in the "Entered" field ("19950606"). The library continues to update this MARC record the MARC record to meet current cataloging rules. The most recent enhancement to the MARC record occurred on September 29, 2022, as shown in the "Replaced" field ("20220929").

48. Attachment 2b further includes an entry in field 050 ("QA76.9.H85 \$b C45 1994") as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system). Attachment 2b further includes two descriptor terms reading "Human-computer interaction \$v Congresses" (see Attachment 2c, Library of Congress subject heading sh2008105861) and "Interactive computer systems \$v Congresses" (see Attachment 2d, Library of

Congress subject heading sh2008104781) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 2b was indexed according to its subject matter by virtue of at least two independently sufficient classifications: the field 050 entry and the field 650 entries. Further, as of June 6, 1995, the MARC record attached hereto as Attachment 2b was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that added this book to its collection, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

49. Further supporting my opinion that Exhibit 1014 was publicly accessible to ordinarily skilled and interested researchers in the field is the fact that the book titled *CHI '94 Conference Proceedings: Human Factors in Computing Systems: "Celebrating Interdependence"* was registered with the U. S. Copyright Office as item TX0003962419 on March 6, 1995, and indicated a publication date of April 10, 1994 (see Attachment 2e, U. S. Copyright Office Public Catalog). As noted above, this would have provided a POSITA with keyword searching capabilities and other tools to locate this book.

50. Attachment 2b indicates that the book titled *CHI '94 Conference Proceedings: Human Factors in Computing Systems: "Celebrating*

Interdependence” as cataloged at the University of Iowa Libraries is currently available from 13 libraries. In view of above, the book titled *CHI '94 Conference Proceedings: Human Factors in Computing Systems: “Celebrating Interdependence*” was publicly available after June 6, 1995, because by that date it had been received, cataloged, and indexed at the University of Iowa Libraries and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1014 was published and accessible to the public on or shortly after June 6, 1995.

VIII. PUBLICATION 3: “Could I Have the Menu Please? An Eye Tracking Study of Design Conventions” by John D. McCarthy, M. Angela Sasse, and Jens Riegelsberger. Exhibit 1015 (“McCarthy”)

51. Exhibit 1015 is a copy of the title page, copyright page, and an excerpt from the book titled *People and Computers XVII: Designing for Society* edited by Eamonn O'Neill, Philippe Palanque, and Peter Johnson. (hereafter “McCarthy”) and issued by Springer-Verlag with a 2004 copyright date. Exhibit 1015 is a true and correct copy of an excerpt titled “Could I Have the Menu Please? An Eye Tracking Study of Design Conventions” (pages 401-414) which appears in the section titled ‘Look at Me: Emotions, Faces and Eyes.’ With the excerpt of Exhibit 1015, no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1015 is a true and correct copy in a condition that creates

no suspicion about its authenticity.

52. The McCarthy conference paper is available from the publisher, Springer,²⁰ and can be downloaded through the digital repository *ResearchGate*.²¹ The Springer website indicates that the book in which the McCarthy conference paper appears was published in print on August 20, 2003.²²

53. Attachment 3a is a true and correct copy of the MARC record for this book from the online catalog at the Library of Congress. The library ownership is indicated by the presence of the library name at the top of the screen. The library continues to update and enhance the MARC record to meet current cataloging rules. The most recent enhancement to the MARC record occurred on February 12, 2010, as shown in the field 005 (“20100212”) of Attachment 3a. I personally identified and retrieved the library catalog record which is Attachment 3a.

54. Based on finding a print copy of the book titled *People and Computers XVII: Designing for Society* in the Library of Congress and MARC record in its online library catalog attached as Attachment 3a, it is my opinion that the McCarthy book was publicly available after June 17, 2004, as shown in field

²⁰ <https://link.springer.com/book/10.1007/978-1-4471-3754-2>

²¹

https://www.researchgate.net/publication/228784071_Could_I_have_the_Menu_Please_An_Eye_Tracking_Study_of_Design_Conventions

²² <https://link.springer.com/book/10.1007/978-1-4471-3754-2#about-this-book>

008 (“040617”). The International Standard Book Number (ISBN) on Exhibit 1015 (1-8523-3766-4) matches the ISBN in the field 020 of Attachment 3a. Therefore, Exhibit 1015 is the same book as the one that the cataloger at the Library of Congress used to create the MARC record that is Attachment 3a.

55. Attached hereto as Attachment 3b is a true and correct copy of the MARC record for the volume titled *People and Computers XVII: Designing for Society* obtained from the OCLC bibliographic database. As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger at the British Library created OCLC record number 52565758 on February 17, 2004, as shown in the “Entered” field (“20040217”).

56. Attachment 3b further includes an entry in field 050 (“QA76.9.H85 \$b H398 2003”) as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system) and an entry in field 082 (“004.01/9”), a subject matter consistent with the Dewey Decimal classification system. Attachment 3b further includes a descriptor term reading “Huan-computer interaction \$v Congresses” (see Attachment 2c, Library of Congress subject heading sh2008105861) in the 650 field. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 3b was indexed according to its subject matter by virtue of at least three independently sufficient

classifications: the field 050 entry, the field 082 entry, and the field 650 entry. Further, as of February 17, 2004, the MARC record attached hereto as Attachment 3b was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that added this book to its collection, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

57. Attachment 3b indicates that the book titled *People and Computers XVII: Designing for Society* as cataloged at the British Library is currently available from 59 libraries. In view of above, the book titled *People and Computers XVII: Designing for Society* was publicly available after February 17, 2003, because by that date it had been cataloged and indexed at the British Library and made part of the OCLC bibliographic database. For these reasons, it is my opinion that Exhibit 1015 was published and accessible to the public on or shortly after February 17, 2004.

IX. PUBLICATION 4: “The Effects of Link Format and Screen Location on Visual Search of Web Pages” by Jonathan Ling and Paul Van Schaik. Exhibit 1016 (“Ling”)

58. Attached hereto as Exhibit 1016 is a copy of the journal article “The Effects of Link Format and Screen Location on Visual Search of Web Pages” by Jonathan Ling and Paul Van Schaik (hereafter “Ling”). The Ling article was

published in Volume 47, Number 8 of the journal *Ergonomics* and was found in the Mayo Clinic Libraries (Rochester, Minnesota). The Ling article appears beginning on page 907 of this issue dated June 22, 2004. Exhibit 1016 is a true and correct copy of the Ling article (pages 907-921) that I understand is being submitted as an exhibit in this proceeding. Specifically, the text of the article is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. The Ling article is also available through the National Library of Medicine²³ and the digital repository *ResearchGate*.²⁴ Exhibit 1016 was found within the custody of a library – a place where an authentic copy of this journal would likely be. Exhibit 1016 is a true and correct copy in a condition that creates no suspicion about its authenticity.

59. Attached hereto as Attachment 4a is a true and correct copy of the MARC record for the journal *Ergonomics* from the online catalog at the Mayo Clinic Libraries. The library ownership is indicated by the presence of the library's code ("OMC") in field 049. The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most

²³ <https://pubmed.ncbi.nlm.nih.gov/15204282/>

²⁴

https://www.researchgate.net/publication/8504099_The_effects_of_link_format_and_screen_location_on_visual_search_of_web_pages

recent enhancement to Attachment 4a occurred on March 22, 1990, as shown in field 005 (“19900322”). I personally identified and retrieved the MARC record that is Attachment 4a.

60. Based on finding a print copy of Exhibit 1016 in the Mayo Clinic Libraries and MARC record in its online library catalog attached as Attachment 4a, it is my opinion that the Ling article published in the journal *Ergonomics* was publicly available on or shortly after June 22, 2004.²⁵ Attachment 4a also shows that Exhibit 1016 was catalogued with five descriptor terms reading “Human engineering \$v Periodicals” (see Attachment 4b, Library of Congress subject heading sh2008122018), “Cybernetics \$v Periodicals” (see Attachment 4c, Library of Congress subject heading sh2008101996), “Industrial management \$v Periodicals” (see Attachment 4d, Library of Congress subject heading sh2008104443), “Human Engineering” (see Attachment 4e, National Library of Medicine subject heading D006804), and “Cybernetics” (see Attachment 4f, National Library of Medicine subject heading D003491) in the 650 fields.

²⁵ The journal *Ergonomics* was published 15 times a year in 2004, therefore, new issues were available approximately every six weeks. Based on the frequency of publication (see Attachment 4b, third field 321) and my years of experience working with serials, it is my opinion that issues would be published by the date indicated on the cover. Therefore, a public availability date of June 22, 2004, is reasonable.

61. As noted in the holdings information (362 field), the Mayo Clinic Libraries has received the journal *Ergonomics* since November 1957 and continues to receive the publication. In view of the MARC record for Exhibit 1016, the Ling article was publicly on or shortly after June 22, 2004, because the serial title had been received, cataloged, and indexed at the Mayo Clinic Libraries and made part of its online catalog database.

62. Attached hereto as Attachment 4g is a true and correct copy of the MARC record for the journal *Ergonomics* obtained from the OCLC bibliographic database. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 4g, that library code is “MUL,” which means that the MARC record for this serial was cataloged as part of the Minnesota Union List of Serials at the University of Minnesota Libraries (Minneapolis, Minnesota). As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger at the University of Minnesota Libraries created OCLC record number 1568187 on August 24, 1975, as shown in the “Entered” field (“19750824”). The library continues to update this MARC record and enhanced the MARC record to meet current cataloging rules. The most recent enhancement to Attachment 4g occurred on November 27, 2022, as shown in the “Replaced” field (“20221127”). I personally identified and retrieved the MARC record that is Attachment 4g. The “BLvl” entry in Attachment 4g is “s,” which

indicates that the journal *Ergonomics* is a serial publication. Field 310 of Attachment 4g reads “Monthly, \$b Sept. 2007-.” Accordingly, the MARC record for Exhibit 1016 corresponds to the journal *Ergonomics* from the time the serial title began and includes the date of the Ling article.

63. Attachment 4g includes an entry in field 050 (“TA166 \$b .E7”)—as described above, a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system), an entry in field 060 (“W1 \$b ER39”)—as described above, a subject matter classification number consistent with the National Library of Medicine classification system (analogous to the Dewey Decimal classification system), and an entry in field 082 (“620.8/2/05”), a subject matter consistent with the Dewey Decimal classification system. Attachment 4g further includes three descriptor terms reading “Human engineering \$v Periodicals” (see Attachment 4b, Library of Congress subject heading sh2008122018), “Cybernetics \$v Periodicals” (see Attachment 4c, Library of Congress subject heading sh2008101996), “Industrial management \$v Periodicals” (see Attachment 4d, Library of Congress subject heading sh2008104443) in the 650 fields. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 4g was indexed according to its subject matter by virtue of at least four independently sufficient classifications: the field 050 entry, the field 060 entry, the field 082

entry, and the field 650 entries. As of August 24, 1975, the MARC record attached hereto as Attachment 4g was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that subscribed to the serial, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

64. Attachment 4g indicates that the journal *Ergonomics* as cataloged at the Library of Congress is currently available from 495 libraries. In view of the above, this issue of the journal *Ergonomics* was publicly available on or shortly after June 22, 2004, because by that date it had been cataloged and indexed at the University of Minnesota Libraries, made part of the OCLC bibliographic database, and received at the Mayo Clinic Libraries. For these reasons, it is my opinion that Exhibit 1016 was published and accessible to the public on or shortly after June 22, 2004.

X. PUBLICATION 5: “The Effect of Violating Visual Conventions of a Website on User Performance and Disorientation: How Bad Can It Be?” by Luis Santa-Maria and Mary C. Dyson. Exhibit 1017 (“Santa-Maria”)

65. Exhibit 1017 is a copy of the title page, copyright page, and a conference paper titled “The Effect of Violating Visual Conventions of a Website on User Performance and Disorientation: How Bad Can It Be?” by Luis Santa-Maria and Mary C. Dyson (hereafter “Santa-Maria”) from a book titled *SIGDOC*

'08: *Proceedings of the 26th Annual ACM International Conference on Design of Communication* edited by Carlos J. Costa and issued by the Association for Computing Machinery in 2008. The SIGDOC '08: 26th Annual ACM International Conference on Design of Communication was held on September 22-24, 2008, in Lisbon, Portugal. Exhibit 1017 is a true and correct copy of the Santa-Maria conference paper (pages 47-54). I obtained this copy of the conference paper from the *ACM Digital Library*²⁶ in the King Library at San José State University (San José, California). The *ACM Digital Library* website indicates that the conference proceedings volume was published on September 22, 2008. Specifically, the text of the Santa-Maria conference paper is complete; no pages are missing, and the text on each page appears to flow seamlessly from one page to the next; further, there are no visible alterations to the document. Exhibit 1017 was found within the custody of a library – a place where, if authentic, a copy of this conference proceedings volume would likely be. Exhibit 1017 is a true and correct copy in a condition that creates no suspicion about authenticity.

66. The Santa-Maria conference paper is also available in the digital repository *ResearchGate*.²⁷

²⁶ <https://dl.acm.org/doi/10.1145/1456536.1456547>

²⁷

https://www.researchgate.net/publication/220961688_The_effect_of_violating_vis

67. Attached hereto as Attachment 5a is a true and correct copy of the MARC record for the volume titled *SIGDOC '08: Proceedings of the 26th Annual ACM International Conference on Design of Communication* obtained from the OCLC bibliographic database. I personally identified and retrieved the MARC record that is Attachment 5a. As previously noted, the library that created the record is recorded in field 040 with a unique library code. For Attachment 5a, that library code is “IXA,” which means that the MARC record for this conference proceedings volume was cataloged at the University of Texas Libraries (Austin, Texas). As can be seen in the “Entered” field in the MARC record for this exhibit, a cataloger at the University of Texas Libraries created OCLC record number 317620928 on April 2, 2009, as shown in the “Entered” field (“20090402”). The library continues to update this MARC record the MARC record to meet current cataloging rules. The most recent enhancement to the MARC record occurred on June 24, 2022, as shown in the “Replaced” field (“20220624”).

68. Attachment 5a further includes an entry in field 050 (“QA76.9.D6 \$b I57 2008”) as described above, this includes a subject matter classification number consistent with the Library of Congress classification system (analogous to the Dewey Decimal classification system) and an entry in field 082 (“004”) as

[ual conventions of a website on user performance and disorientation How b
ad can it be](#)

described above, this includes a subject matter classification number consistent with the Dewey Decimal classification system. Attachment 5a further includes a descriptor term reading “Electronic data processing documentation \$v Congresses” (see Attachment 5b, Library of Congress subject heading sh85042311 and Attachment 5c, Library of Congress subject heading sh85031115) in the 650 field. Thus, as of its cataloging, the publication corresponding to the MARC record attached hereto as Attachment 5a was indexed according to its subject matter by virtue of at least three independently sufficient classifications: the field 050 entry, the field 082 entry, and the field 650 entry. Further, as of April 2, 2009, the MARC record attached hereto as Attachment 5a was accessible through any library with access to the OCLC bibliographic database or the online catalog at a library that added this book to its collection, which means that the corresponding publication was publicly available on or before that same date through any library with access to the OCLC bibliographic database or through an individual library.

69. Attachment 5a indicates that the book titled *SIGDOC '08: Proceedings of the 26th Annual ACM International Conference on Design of Communication* as cataloged at the University of Texas Libraries is currently available from 18 libraries. In view of above, the book titled *SIGDOC '08: Proceedings of the 26th Annual ACM International Conference on Design of Communication* was publicly available after September 22, 2008, because by that

date it had been published online in the ACM Digital Library. For these reasons, it is my opinion that Exhibit 1017 was published and accessible to the public on or shortly after September 22, 2008.

XI. SUMMARY OF OPINIONS

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

Exhibit	Publication	Publicly Available No Later Than
1012	Norman Donald A. <i>The Design of Everyday Things</i> . Chapter 1, “The Psychopathology of Everyday Things” (pp. 13-17). New York: Doubleday/Bantam Doubleday Dell Publishing Group, Inc., 1990, ©1988.	March 1, 1990
1014	Nielsen, Jakob. “Enhancing the Explanatory Power of Usability Heuristics.” <i>CHI '94 conference proceedings: human factors in computing systems: "Celebrating interdependence"</i> (pp. 152-158). New York: Association for Computing Machinery, ©1994.	April 24, 1994
1015	McCarthy, John D., M. Angela Sasse, and Jens Riegelsberger. “Could I have the Menu Please? An Eye Tracking Study of Design Conventions.” <i>People and Computers XVII: Designing for Society</i> , edited by Eamonn O'Neill, Philippe Palanque and Peter Johnson (pp. 401-414). London: Springer-Verlag, 2004.	February 17, 2004
1016	Ling, Jonathan, and Paul Van Schaik. “The Effects of Link Format and Screen Location on Visual Search of Web Pages.” <i>Ergonomics</i> , vol. 47, no. 8 (22 June 2004): 907-921.	June 22, 2004
1017	Santa-Maria, Luis, and Mary C. Dyson. “The Effect of Violating Visual Conventions of a	September 22, 2008

Exhibit	Publication	Publicly Available No Later Than
	Website on User Performance and Disorientation: How Bad Can It Be?" <i>SIGDOC '08: Proceedings of the 26th annual ACM international conference on Design of communication</i> (pp. 47-54). New York: Association for Computing Machinery, 2008.	

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

Dated: March 2, 2023

By: Sylvia D. Hall-Ellis
Sylvia D. Hall-Ellis, Ph.D.

ATTACHMENT 1a

MARC Bibliographic Record

LEADER 01199mam a2200361 a 4500

001 9933555963602122

005 20190627103431.0

008 891115r19901988nyua b 001 0 eng

010 \$a 89048989

020 \$a0385267746 :\$c\$12.95 (Can. \$15.95)

035 \$a(OCOLC)20755210

035 \$9ATX4680UW

035 \$a(WU)3355596-uwmadisondb

035 \$a(EXLNZ-01UWI_NETWORK)999763907602121

040 \$aDLC\$beng\$cDLC

049 \$aWIDA

050 10 \$aTS171.4\$b.N67 1990

082 00 \$a620.8/2\$220

100 1_ \$aNorman, Donald A.

240 10 \$aPsychology of everyday things

245 14 \$aThe design of everyday things /\$cDonald A. Norman.

250 \$aFirst Doubleday/Currency edition.

- 264 _1 \$aNew York :\$bDoubleday,\$c1990.
- 264 _4 \$c©1988
- 300 \$axv, 257 pages :\$billustrations ;\$c21 cm
- 336 \$atext\$btxt\$2rdacontent
- 337 \$aunmediated\$bn\$2rdamedia
- 338 \$avolume\$bnc\$2rdacarrier
- 500 \$aReprint. Originally published: The psychology of everyday things. New York : Basic Books, c1988.
- 504 \$aIncludes bibliographical references (pages 241-247).
- 500 \$aIncludes index.
- 650 _0 \$aIndustrial design\$xPsychological aspects.
- 650 _0 \$aHuman engineering.
- 997 \$aMARCIVE

MMS IDs

Document ID:

999763907602121

Network Electronic IDs:

Network Physical IDs:

999763907602121

mms_ec_ids:

995543193402134

mms_gb_ids:

991007020834802123

mms_mad_ids:

9933555963602122

mms_ww_ids:

994715083702133

ATTACHMENT 1b

LIBRARY

CATALOG

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BOOK

The design of everyday things

[Full Record](#)[MARC Tags](#)

000	01205pam a2200313 a 4500
001	1982729
005	20090323182234.0
008	891115r19901988nyua b 001 0 eng
906	___ a 7 b cbc c orignew d 1 e ocip f 19 g y-gencatlg
955	___ a pc03 to be00 11-15-89; be20 to SCD 11-17-89; fg11 11-17-89; fn29 11-24-89
010	___ a 89048989
020	___ a 0385267746 : c \$12.95 (Can. \$15.95)
035	___ 9 (DLC) 89048989
040	___ a DLC c DLC d DLC
050	10 a TS171.4 b .N67 1990
082	00 a 620.8/2 2 20
100	1_ a Norman, Donald A.
240	10 a Psychology of everyday things
245	14 a The design of everyday things / c Donald A. Norman.
250	___ a 1st Doubleday/Currency ed.
260	___ a New York : b Doubleday, c 1990, c1988.
300	___ a xv, 257 p. : b ill. ; c 21 cm.
500	___ a Reprint. Originally published: The psychology of everyday things. New York : Basic Books, c1988.
504	___ a Includes bibliographical references (p. 241-247).
500	___ a Includes index.
650	_0 a Industrial design x Psychological aspects.

650	_0	a Human engineering.
856	42	3 Publisher description u http://www.loc.gov/catdir/description/random043/89048989.html
920	__	a Do not acquire

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ATTACHMENT 1c

OCLC

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050 10 TS171.4 \$b .N67 1990

060 4 TS 171.4 \$b N842p 1990

080 621.7 \$b N67

082 00 620.8/2 \$2 20

090 \$b

100 1 Norman, Donald A.

240 10 Psychology of everyday things

245 14 The design of everyday things / \$c Donald A. Norman.

250 1st Doubleday/Currency ed.

260 New York : \$b Doubleday, \$c 1990, ©1988.

300 xv, 257 pages : \$b illustrations ; \$c 21 cm

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336 text $b txt $2 rdacontent
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337 unmediated \$b n \$2 rdamedia

338 volume \$b nc \$2 rdacarrier

500 Reprint. Originally published: The psychology of everyday things. New York : Basic Books, ©1988.

504 Includes bibliographical references (pages 241-247) and index.

505 00 \$t The Psychopathology of Everyday Things -- \$t The Psychology of Everyday Actions -- \$t Knowledge in the Head and in the World -- \$t Knowing What to Do -- \$t To Err Is Human -- \$t The Design Challenge -- \$t User-Centered Design.

520 Even the smartest among us can feel inept as we fail to figure out which light switch or oven burner to turn on, or whether to push, pull, or slide a door. The fault, argues this book, lies not in ourselves, but in product design that ignores the needs of users and the principles of cognitive psychology. The problems range from ambiguous and hidden controls to arbitrary relationships between controls and functions, coupled with a lack of feedback or other assistance and unreasonable demands on memorization. The book presents examples aplenty, among them, the VCR, computer, and office telephone, all models of how not to design for people. But good, usable design is possible. The rules are simple: make things visible, exploit natural relationships that couple function and control, and make

intelligent use of constraints. The goal: guide the user effortlessly to the right action on the right control at the right time. But the designer must care. The author is a world-famous psychologist and pioneer in the application of cognitive science. His aim is to raise the consciousness of both consumers and designers to the delights of products that are easy to use and understand.

650 0 Industrial design \$x Psychological aspects.

650 0 Human engineering.

650 0 Psychology, Industrial.

650 2 Ergonomics \$0 (DNLM)D006804

650 2 Psychology, Industrial \$0 (DNLM)D011590

650 6 Design \$0 (CaQQLa)201-0008497 \$x Aspect psychologique. \$0 (CaQQLa)201-0373794

650 6 Ergonomie. \$0 (CaQQLa)201-0042167

650 6 Psychologie du travail. \$0 (CaQQLa)201-0015618

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650 7 Psychology, Industrial. \$2 fast \$0 (OCoLC)fst01081592

650 7 Human engineering. \$2 fast \$0 (OCoLC)fst00963014

650 7 Industrial design \$x Psychological aspects. \$2 fast \$0 (OCoLC)fst01730201

650 7 Projetos (administracao) \$2 larpcal

650 7 Ergonomie. \$2 ram

650 7 Conception technique \$x Aspect psychologique. \$2 ram

650 7 Conception technique \$x Aspect social. \$2 ram

650 7 Design industriel \$x Aspect psychologique. \$2 ram

856 42 \$3 Publisher description \$u <http://catdir.loc.gov/catdir/description/random043/89048989.html>

856 42 \$u <http://www.jnd.org/books/design-of-everyday-things-revised.html>

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LCCN Permalink: <https://lcn.loc.gov/sh85037199>

HEADING: Industrial design

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450 __ |w nne |a Design, Industrial

550 __ |a Mechanical drawing

550 __ |a New products

550 __ |w g |a Design

906 __ |t 0910 |u tc09 |v 1

953 __ |a xx00 |b td04

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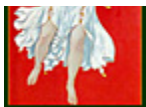
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150 __ |a Psychological aspects

260 __ |i subdivision |a Psychological aspects |i under subjects, e.g. |a Accidents--
Psychological aspects; Nursing--Psychological aspects

906 __ |t 7612 |u ---- |v 0

953 __ |a xx00

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053 _0 |a TA166 |b TA167 |c Civil engineering

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450 __ |a Ergonomics

450 __ |a Human factors in engineering design

550 __ |w g |a Bioengineering

550 __ |w g |a Environmental engineering

550 __ |w g |a Industrial engineering

550 __ |a Human comfort

550 __ |a Human-robot interaction

680 __ |i Here are entered works on engineering design with reference to man's anatomical, physiological, and psychological capabilities and limitations.

953 __ |a xx00 |b tc09

910 __ |a Proposal saved by te01 on 08/06/2011 at 09:09:18

906 __ |t 1122 |u tc09 |v 1

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LC control no.: sh 85108476

LCCN Permalink: <https://lcn.loc.gov/sh85108476>

HEADING: Psychology, Industrial

000 00646cz a2200241n 450

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035 __ |a (DLC)104726

040 __ |a DLC |c DLC |d DLC

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150 __ |a Psychology, Industrial

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550 __ |w g |a Psychology, Applied

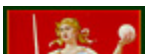
550 __ |a Industrial psychologists

906 __ |t 9122 |u fk07 |v 0

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Public Catalog

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Search Request: Left Anchored Title = design of everyday things

Search Results: Displaying 3 of 3 entries



Labeled View

The Design of everyday things / Donald A. Norman.

Type of Work: Text

Registration Number / Date: TX0002767206 / 1990-03-07

Title: The Design of everyday things / Donald A. Norman.

Edition: 1st ed.

Description: 1 v.

Copyright Claimant: Donald A. Norman

Date of Creation: 1989

Date of Publication: 1990-03-01

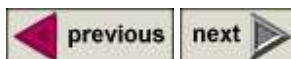
Date in Notice: notice: 1989

Previous Registration: Prev. reg. 1988.

Basis of Claim: New Matter: "preface."

Copyright Note: C.O. correspondence.

Names: [Norman, Donald A.](#)



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100 1#$aAdelson, Beth
245 00$aCHI 94: Human Factors in Computing Systems Conference
264 31$a[Place of publication not identified] $bAssociation for
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336 ##$atext $btxt
337 ##$acomputer $bc
338 ##$aonline resource $bcr
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546 ##$aEnglish
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710 2#$aAssociation for Computing Machinery-Digital Library.
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ATTACHMENT 2b

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050 4 QA76.9.H85 \$b C45 1994

090 \$b

111 2 CHI Conference \$d (1994 : \$c Boston, Mass.)

245 10 CHI '94 conference proceedings : \$b human factors in computing systems : "Celebrating interdependence", Boston, Massachusetts, USA, April 24-28, 1994 / \$c edited by Beth Adelson, Susan Dumais, Judith Olson ; sponsored by the Association for Computing Machinery/Special Interest Group on Computer-Human Interaction (ACM/SIGCHI).

246 18 Human factors in computing systems

246 30 Celebrating interdependence

260 New York, NY : \$b Association for Computing Machinery ; \$a Reading, MA : \$b Addison-Wesley Pub. [distributor], \$c ©1994.

300 xviii, 483 pages : \$b illustrations (some color) ; \$c 28 cm

336 text \$b txt \$2 rdacontent

337 unmediated \$b n \$2 rdamedia

338 volume \$b nc \$2 rdacarrier

500 "ACM order number: 608940"--Page iii

504 Includes bibliographical references and indexes.

505 0 [V. 1.] CHI '94 conference proceedings -- [v. 2.] CHI '94 conference companion

650 0 Human-computer interaction \$v Congresses.

650 0 Interactive computer systems \$v Congresses.

650 6 Systèmes conversationnels (Informatique) \$0 (CaQQLa)201-0004226 \$v Congrès. \$0 (CaQQLa)201-0378219

650 7 Human-computer interaction. \$2 fast \$0 (OCoLC)fst00963494

650 7 Interactive computer systems. \$2 fast \$0 (OCoLC)fst00975980

655 7 Conference papers and proceedings. \$2 fast \$0 (OCoLC)fst01423772

700 1 Adelson, Beth.

700 1 Dumais, Susan T.

700 1 Olson, Judith S.

710 2 SIGCHI (Group : U.S.)

ATTACHMENT 2c

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667 __ |a Record generated for validation purposes.

670 __ |a Work cat.: Proceedings of the ... International Conference on Automatic Face and Gesture Recognition,

906 __ |t 8888 |u te00 |v 0

953 __ |a te00

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953 __ |a te00

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Search Request: Left Anchored Title = CHI '94

Search Results: Displaying 1 of 1 entries

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Human factors in computing systems : Celebrating interdependence : CHI '94...

Type of Work: Text

Registration Number / Date: TX0003962419 / 1995-03-06

Title: Human factors in computing systems : Celebrating interdependence : CHI '94 : conference proceedings : Boston, MA, Apr. 24-28, 1994 / edited by Beth Adelson, Susan Dumais, Judith Olson.

Imprint: New York : ACM Press, 1994.

Description: 483 p.

Copyright Claimant: Association for Computing Machinery, Inc. (employer for hire)

Date of Creation: 1994

Date of Publication: 1994-04-10

Other Title: Celebrating interdependence
CHI '94 : conference proceedings

Names: [Adelson, Beth](#)
[Dumais, Susan](#)
[Olson, Judith](#)
[Association for Computing Machinery, Inc.](#)



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BOOK

People and computers XVII : designing for society ; proceedings of HCI 2003

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[MARC Tags](#)

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072	_7 a QA 2 lcco
082	00 a 004.01/9 2 22
111	2_ a HCI Conference d (2003 : c University of Bath)
245	10 a People and computers XVII : b designing for society ; proceedings of HCI 2003 / c Eamonn O'Neill, Philippe Palanque and Peter Johnson (eds.).

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111 2 HCI Conference \$d (2003 : \$c University of Bath)

245 10 People and computers XVII : \$b designing for society ; proceedings of HCI 2003 / \$c Eamonn O'Neill, Philippe Palanque and Peter Johnson (eds.).

260 London ; \$a New York : \$b Springer, \$c ©2004.

300 xvi, 418 pages ; \$c 24 cm.

336 text \$b txt \$2 rdacontent

337 unmediated \$b n \$2 rdamedia

338 volume \$b nc \$2 rdacarrier

490 1 BCS conference series

504 Includes bibliographical references and indexes.

520 The theme of the seventeenth British human-computer interaction conference is designing for society. Contributions range from innovations in computerized ambulance dispatch team work to overcoming usability limitations and game-playing in multi-user sessions.

505 0 Understanding Task Grouping Strategies / Peter J. Wild, Peter Johnson and Hilary Johnson -- Two Phenomenological Studies of Place / Phil Turner and Susan Turner -- The Interaction Character of Computers in Co-located Collaboration / Mattias Arvola -- How Knowledge Workers Gather Information from the Web: Implications for Peer-to-Peer File Sharing Tools / Jennifer Hyams and Abigail Sellen -- Evaluation of a Prototype Interface for Structured Document Retrieval / Jane Reid and Mark D. Dunlop -- Comparing Speed-dependent Automatic Zooming with Traditional Scroll, Pan and Zoom Methods / Andy Cockburn and Joshua Savage -- The Application of Urban Design Principles to Navigation of Information Spaces / David Benyon and Bettina Wilmes -- A Method for Organizational Culture Analysis as a Basis for the Implementation of User-Centred Design into Organizations / Netta Iivari, Kaisu Juntunen and Ikka

Tuikkala -- Changing Analysis' Tunes: The Surprising Impact of a New Instrument for Usability Inspection Method Assessment / Gilbert Cockton, Alan Woolrych, Lynne Hall and Mark Hindmarch -- Ontological Sketch Models: Highlighting User-System Misfits / Iain Connell, Thomas Green and Ann Blandford -- Improving the Acquisition of Small Targets / Andy Cockburn and Andrew Firth -- A Directional Stroke Recognition Technique for Mobile Interaction in a Pervasive Computing World / Vassilis Kostakos and Eamonn O'Neill -- Look or Listen: Discovering Effective Techniques for Accessing Speech Data / Steve Whittaker and Julia Hirschberg -- Social and Cultural Obstacles to the (B2C) E-Commerce Experience / Liisa Dawson, Shailey Minocha and Marian Petre -- Trust at First Sight? A Test of Users' Ability to Identify Trustworthy E-commerce Sites / Jens Riegelsberger, M. Angela Sasse and John D. McCarthy -- MovieLens Unplugged: Experiences with a Recommender System on Four Mobile Devices / Bradley N. Miller, Istvan Albert, Shyong K. Lam, Joseph A. Konstan and John Riedl -- Effective Web-Searching on Mobile Devices / Kerry Rodden, Natasa Milic-Frayling, Ralph Sommerer and Alan Blackwell -- M-RSVP: Mobile Web Browsing on a PDA / Oscar de Bruijn and Chieh Hao Tong -- Fancy Graphics Can Deter Older Users: A Comparison of Two Interfaces for Exploring Healthy Lifestyle Options / Patricia Wright, Steve Belt and Chris John -- Towards VoiceXML Dialogue Design for Older Adults / Mary Zajicek, Richard Wales and Andrew Lee -- Web Touch: An Audio-tactile Browser for Visually Handicapped People / M. Macias, A. Reinoso, J. Gonzalez, J. L. Garcia, J. C. Diaz and F. Sanchez -- Two Falls out of Three in the Automated Accessibility Assessment of World Wide Web Sites: A-Prompt vs. Bobby / Dan Diaper and Linzy Worman -- Expressive Image Generator for an Emotion Extraction Engine / A. C. Boucouvalas, Zhe Xu and David John -- An Exploration of Facial Expression Tracking in Affective HCI / Robert Ward, Dennise Bell and Phil Marsden -- Could I have the Menu Please? An Eye Tracking Study of Design Conventions / John D. McCarthy, M. Angela Sasse and Jens Riegelsberger.

650 0 Human-computer interaction \$v Congresses.

650 7 Human-computer interaction. \$2 fast \$0 (OCoLC)fst00963494

655 7 Conference papers and proceedings. \$2 fast \$0 (OCoLC)fst01423772

700 1 O'Neill, Eamonn.

700 1 Johnson, Peter, \$d 1950-

700 1 Palanque, Philippe, \$d 1966-

776 08 \$i Online version: \$a HCI Conference (2003 : University of Bath). \$t People and computers XVII. \$d London ; New York: Springer, ©2004 \$w (OCoLC)607061659

830 0 BCS conference series.

856 41 \$3 Table of contents \$u <http://catdir.loc.gov/catdir/enhancements/fy1004/2004296675-t.html>

856 42 \$3 Publisher description \$u <http://catdir.loc.gov/catdir/enhancements/fy1004/2004296675-d.html>

ATTACHMENT 4a



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 041 0 eng|bfreger
 042 lc|ansdp
 049 OMCS
 099 Periodical
 210 Ergonomics.
 222 0 Ergonomics.
 245 00 Ergonomics :|bthe official publication of the Ergonomics
 Research Society.
 260 London :|bTaylor & Francis,|c1957-
 300 v. :|bill., diagrs. ;|c27 cm.
 310 Monthly|b<, Apr. 1982->
 321 Quarterly,|b1957-
 362 0 Vol. 1, no. 1 (Nov. 1957)-
 500 Title from cover.
 510 1 Excerpta medica.
 510 2 Biological abstracts|x0006-3169.
 510 2 CIS abstracts|x0302-7651.
 510 2 Engineering index annual (1968)|x0360-8557.
 510 2 Index medicus|x0019-3879.
 510 2 International aerospace abstracts|x0020-5842.
 510 2 Management and marketing abstracts|x0308-2172.
 510 2 Psychological abstracts|x0033-2887|b1957-
 510 2 Public Affairs Information Service bulletin|x0033-3409.
 510 0 Chemical abstracts|x0009-2258.
 510 0 Engineering index monthly|x0013-7960.
 510 0 Nuclear science abstracts|x0029-5612.
 525 Supplements accompany some issues.
 530 Also available online.
 546 Some English, French, and German summaries.
 550 Official publication of the Ergonomics Society (called
 Ergonomics Research Society, 1957-Mar. 1976) and of the
 Nederlandse Vereniging voor Ergonomie and the
 International Ergonomics Association <, Jan. 1976->
 555 Vols. 1-10 (1957-1967). 1 v.
 650 0 Human engineering|vPeriodicals.
 650 0 Cybernetics|vPeriodicals.
 650 0 Industrial management|vPeriodicals.
 650 2 Human Engineering.
 650 2 Cybernetics.
 655 2 Periodical.
 710 2 Ergonomics Research Society.
 710 2 Ergonomics Society (Great Britain)
 710 2 Nederlandse Vereniging voor Ergonomie.
 710 2 International Ergonomics Association.
 856 41 |uhttp://www.tandfonline.com/loi/terg20|zE-journal:Taylor
 & Francis:2005-2010

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<i>CALL #</i>	Periodical
<i>Location</i>	<u>Online Network Resource</u>
<i>Lib. Has</i>	48:1(2005)-53:12(2010)
<i>CALL #</i>	Periodical
<i>Location</i>	<u>RO Plummer Journals</u>
<i>Lib. Has</i>	32:1(1989)-32:8(1989),32:10(1989)-53:12(2010)
<u>Latest Received:</u>	
<i>CALL #</i>	Periodical
<i>Location</i>	<u>MLAC Serials</u>
<i>Lib. Has</i>	28:1(1985)-31:12(1988)

LOCATION	CALL #	STATUS
<u>Online Network Resource</u>	<u>Periodical</u>	ONLINE
<u>MLAC Serials</u>	<u>Periodical</u> 28:1-2 1985	REMOTE STORAGE
<u>MLAC Serials</u>	<u>Periodical</u> 28:3-6 1985	REMOTE STORAGE
<u>MLAC Serials</u>	<u>Periodical</u> 28:7-9 1985	REMOTE STORAGE
<u>MLAC Serials</u>	<u>Periodical</u> 28:10-12 1985	REMOTE STORAGE
<u>MLAC Serials</u>	<u>Periodical</u> 29:1-3=p.1-486 1986	REMOTE STORAGE
<u>MLAC Serials</u>	<u>Periodical</u> 29:4-7=p.487-952 1986	REMOTE STORAGE
<u>MLAC Serials</u>	<u>Periodical</u> 29:8-10=p.953-1296 1986	REMOTE STORAGE
<u>MLAC Serials</u>	<u>Periodical</u> 29:11-12=p.1297-1692 1986	REMOTE STORAGE
<u>MLAC Serials</u>	<u>Periodical</u> 30:1-3 1987	REMOTE STORAGE

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008 080425|| anannbabn |n ana

010 __ |a sh2008122018

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040 __ |a DLC |b eng |c DLC

150 __ |a Human engineering |v Periodicals

667 __ |a Record generated for validation purposes.

670 __ |a Work cat.: Bulletin,

906 __ |t 8888 |u te00 |v 0

953 __ |a te00

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005 20110729160137.0

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035 __ |a (DLC)377533

035 __ |a (DLC)sh2008101996

040 __ |a DLC |b eng |c DLC

150 __ |a Cybernetics |v Periodicals

667 __ |a Record generated for validation purposes.

670 __ |a Work cat.: Trudy Fakul'teta vychislitel'noĭ matematiki i kibernetiki,

906 __ |t 8888 |u te00 |v 0

953 __ |a te00

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

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005 20110729160314.0

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010 __ |a sh2008104443

035 __ |a (DLC)381246

035 __ |a (DLC)sh2008104443

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150 __ |a Industrial management |v Periodicals

667 __ |a Record generated for validation purposes.

670 __ |a Work cat.: Trudy Inzhenerno-ekonomicheskogo instituta,

906 __ |t 8888 |u te00 |v 0

953 __ |a te00

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ATTACHMENT 4e

Ergonomics MeSH Descriptor Data 2023

[Details](#)[Qualifiers](#)[MeSH Tree Structures](#)[Concepts](#)

MeSH Heading

Ergonomics

Tree Number(s)

F02.784.412

J01.293.556

Unique ID

D006804

RDF Unique Identifier

<http://id.nlm.nih.gov/mesh/D006804>

Annotation

index "medical ergonomics" here but do not coordinate with MEDICINE

Scope Note

The science of designing, building or equipping mechanical devices or artificial environments to the anthropometric, physiological, or psychological requirements of the people who will use them.

Entry Term(s)

Cognitive Ergonomics

Engineering Psychology

Ergonomic Assessment

Human Engineering

Human Factors Engineering

Human Factors and Ergonomics

Organizational Ergonomics

Physical Ergonomics

Psychology, Engineering

Visual Ergonomics

See Also

Psychology, Industrial

Public MeSH Note

2018; use HUMAN ENGINEERING 1966-2017; use HUMAN ENGINEERING to search ENGINEERING PSYCHOLOGY 1969-78

Online Note

2018; see HUMAN ENGINEERING 1966-2017; use HUMAN ENGINEERING to search ENGINEERING PSYCHOLOGY 1969-78

History Note

2018; use HUMAN ENGINEERING 1966-2017; use HUMAN ENGINEERING to search ENGINEERING PSYCHOLOGY 1969-78

Date Established

1960/01/01

Date of Entry

1999/01/01

Revision Date

Connect with NLM



NLM Support Center
Accessibility
Careers

National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

Web Policies
FOIA
HHS Vulnerability Disclosure

NLM | NIH | HHS | USA.gov

ATTACHMENT 4f

Cybernetics MeSH Descriptor Data 2023

[Details](#)[Qualifiers](#)[MeSH Tree Structures](#)[Concepts](#)**MeSH Heading**

Cybernetics

Tree Number(s)

L01.906.099

Unique ID

D003491

RDF Unique Identifier

<http://id.nlm.nih.gov/mesh/D003491>

Scope Note

That branch of learning which brings together theories and studies on communication and control in living organisms and machines.

See Also

Bionics

Date Established

1966/01/01

Date of Entry

1999/01/01

Revision Date

2017/06/30

page delivered in 0.159s

Connect with NLM



NLM Support Center

Accessibility

Careers

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Bethesda, MD 20894

Web Policies

FOIA

HHS Vulnerability Disclosure

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OCLC 1568187 **No holdings in XXX - 495 other holdings**

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016 7 E12160000 \$2 DNLM

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042 pcc \$a nsdp

050 00 TA166 \$b .E7

060 00 W1 \$b ER39

082 04 620.8/2/05 \$2 19

090 \$b

210 0 Ergonomics

222 0 Ergonomics

245 00 Ergonomics : \$b the official publication of the Ergonomics Research Society.

260 London : \$b Taylor & Francis, \$c 1957-

300 volumes : \$b illustrations ; \$c 27 cm

310 Monthly, \$b Sept. 2007-

321 Quarterly, \$b 1957-

321 Monthly, \$b <Apr. 1982-2000

321 15 no. a year, \$b 2001-Aug. 2007

336 text \$b txt \$2 rdacontent

337 unmediated \$b n \$2 rdamedia

338 volume \$b nc \$2 rdacarrier

362 0 Vol. 1, no. 1 (Nov. 1957)-

525 Supplements accompany some issues.

546 Some English, French, and German summaries.

550 Official publication of the Institute of Ergonomics & Human Factors <2010-(called Ergonomics Society <1976-2009; Ergonomics Research Society, 1957-Mar. 1976) and of the Nederlandse Vereniging voor Ergonomie and the International Ergonomics Association <, Jan. 1976-

555 Vols. 1 (1957)-10 (1967). 1 v.

588 0 Vol. 1, no. 1 (Nov. 1957); title from cover.

588 1 Vol. 53, no. 4 (Apr. 2010).

650 0 Human engineering \$v Periodicals.

650 0 Cybernetics \$v Periodicals.

650 0 Industrial management \$v Periodicals.

650 6 Ergonomie \$v Périodiques.

650 6 Cybernétique \$v Périodiques.

650 6 Gestion d'entreprise \$v Périodiques.

650 7 Gestion industrielle. \$2 eclas

650 7 Mensuels. \$2 eclas

650 7 Ergonomie. \$2 eclas

650 7 Cybernetics. \$2 fast \$0 (OCoLC)fst00885777

650 7 Human engineering. \$2 fast \$0 (OCoLC)fst00963014

650 7 Industrial management. \$2 fast \$0 (OCoLC)fst00971246

650 17 Ergonomie. \$2 gtt

650 7 Human engineering \$v Periodicals. \$2 nli

650 7 Industrial management \$v Periodicals. \$2 nli

650 2 Ergonomics. \$0 (DNLM)D006804

650 2 Cybernetics. \$0 (DNLM)D003491

655 7 Periodicals. \$2 fast \$0 (OCoLC)fst01411641

655 7 Periodicals. \$2 lcgt

655 7 Periodicals. \$2 rbgenr

655 2 Periodical. \$0 (DNLM)D020492

710 2 Ergonomics Research Society.

710 2 Ergonomics Society (Great Britain)

710 2 Nederlandse Vereniging voor Ergonomie.

710 2 International Ergonomics Association.

710 2 Institute of Ergonomics & Human Factors.

776 08 \$i Michofiche version: \$t Ergonomics \$x 0014-0139 \$w (DLC) 2002261105 \$w (OCoLC)36580328

776 08 \$i Online version: \$t Ergonomics (Online) \$x 1366-5847 \$w (DLC) 00238471 \$w (OCoLC)38266240

850 CLSU \$a CU-Riv \$a CaNSHD \$a CaOKQH \$a CaOPAL \$a CaOTDT \$a CaQMMM \$a CaSRU \$a DLC \$a IaAS \$a MBCo \$a MH-Ed \$a MU \$a MWiW \$a MdU-H \$a MoSW-M \$a NNC \$a NNC-M \$a NcWsw \$a NjP \$a P \$a PPI \$a PPID \$a ScCLEU \$a TxHMC \$a ViBlbV \$a ViU \$a Wa

856 41 \$u <http://www.ingentaconnect.com/content/tandf/terg>

856 41 \$u <http://informaworld.com/openurl?genre=journal&issn=0014-0139>

856 4 \$u <http://firstsearch.oclc.org> \$z Address for accessing the journal using authorization number and password through OCLC FirstSearch Electronic Collections Online. Subscription to online journal required for access to abstracts and full text

856 4 \$u <http://firstsearch.oclc.org/journal=0014-0139;screen=info;ECOIP> \$z Address for accessing the journal from an authorized IP address through OCLC FirstSearch Electronic Collections Online. Subscription to online journal required for access to abstracts and full text

856 4 \$u <http://journalonline.tandf.co.uk/openurl.asp?genre=journal&issn=0014-0139>

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BLvl	m	Form		Conf	1
		Cont	b	GPub	
Desc	a	Ills	a	Fest	0
				DtSt	s
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				MRec	
				Indx	1
				Dates	2008

040 IXA \$b eng \$c IXA \$d OL\$\$ \$d GBVCP \$d OCLCA \$d OCLCF \$d OCLCQ \$d OCL \$d GILDS \$d OCLCA \$d OCLCO

020 9781605580838

020 160558083X

042 pcc

050 4 QA76.9.D6 \$b I57 2008

082 04 004 \$2 22

084 54.70 \$2 bcl

084 54.80 \$2 bcl

090 \$b

111 2 SIGDOC (Conference : 1990-) \$n (26th : \$d 2008 : \$c Lisbon, Portugal)

245 10 SIGDOC '08 : \$b proceedings of the 26th annual ACM International Conference on Design of Communication : Lisbon, Portugal, September 22-24, 2008 / \$c editors, Carlos J. Costa [and others] ; sponsored by ACM SIGDOC ; [general chairs, Henrique O'Neill and Manuela Aparicio].

246 30 Proceedings of the 26th annual ACM International Conference on Design of Communication

260 New York, N.Y. : \$b ACM Press, \$c 2008.

300 xiv, 288 pages : \$b illustrations ; \$c 28 cm

336 text \$b txt \$2 rdacontent

337 unmediated \$b n \$2 rdamedia

338 volume \$b nc \$2 rdacarrier

500 "ACM order number: 613080"--Title page verso.

504 Includes bibliographical references and index.

650 0 Electronic data processing documentation \$v Congresses.

650 6 Informatique \$0 (CaQQLa)201-0079206 \$x Documentation \$0 (CaQQLa)201-0079206 \$v Congrès. \$0 (CaQQLa)201-0378219

650 7 Electronic data processing documentation. \$2 fast \$0 (OCoLC)fst00907095

655 4 Congresses.

655 7 Conference papers and proceedings. \$2 fast \$0 (OCoLC)fst01423772

700 1 Costa, Carlos J.

700 1 O'Neill, Henrique.

700 1 Aparício, Manuela.

710 2 Association for Computing Machinery.

ATTACHMENT 5b

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053 _0 |a QA76.9.D6

150 __ |a Electronic data processing documentation

450 __ |a Computer documentation

450 __ |a Documentation in electronic data processing

450 __ |a Documents in electronic data processing

450 __ |a Electronic data processing |x Documents

450 __ |a Electronic data processing |x Records

550 __ |w g |a Computer software

550 __ |w g |a Records

670 __ |a LC data base, 6/26/90 |b (computer documentation)

680 __ |i Here are entered works on the content, structure, and form of records or documents which describe the design, development, and operation of electronic data processing undertakings.

906 __ |t 9030 |u fk05 |v 1

953 __ |a xx00 |b fj25

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HEADING: Congresses and conventions

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040 __ |a DLC |c DLC |d DLC |d WaU |d DLC

053 _0 |a AS

150 __ |a Congresses and conventions

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

450 __ |a Colloquia

450 __ |a Colloquiums

450 __ |a Conferences

450 __ |a Conventions (Congresses)

450 __ |a International conferences, congresses and conventions

450 __ |a Symposia

450 __ |a Symposiums

550 __ |w g |a Intellectual cooperation

550 __ |a Convention facilities

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

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

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

906 __ |t 9921 |u te04 |v 0

910 __ |a Record saved by ec04 on 01/17/2014 at 16:02:37

910 __ |a Record saved by ec11 on 09/03/2013 at 08:55:33

953 __ |a xx00 |b sg08

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