

# RESEARCH GUIDE

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## COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

### George Mason University Libraries

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This bibliography of reference sources in computer science and information technology emphasizes hardware, software, information science and networking systems. Books designated “Reference” cannot be checked out and are located in the Library’s reference room; those with “Stacks” are located in the circulating collection on the upper floors of the library. JCL is for the Johnson Center Library. Search the libraries’ catalog online at <http://library.gmu.edu> to find books that can be checked out. Most technology books are located in the Fenwick and Johnson Center libraries and usually begin with call numbers Q, QA76, or T. The guide for Internet resources in Engineering at <http://library.gmu.edu/resources/engin/> includes links for computer science and information technology.

#### LITERATURE GUIDES

***Guide to Information Sources in Engineering.*** Charles R. Lord. Englewood, CO: Libraries Unlimited, 2000.  
**Fenwick Reference T10.7.L67 2000**

***Information Sources in Information Technology.*** David Haynes, ed. London: Bowker-Saur, 1990.  
**Fenwick Reference Q158.5.H87 1998**

***Using Science and Technology Information Sources.*** Ellis Mount. Phoenix: Oryx Press, 1991.  
**Fenwick Reference Q224.M68 1991**

#### GENERAL ENCYCLOPEDIAS, HANDBOOKS AND DICTIONARIES

##### ENCYCLOPEDIAS

***Encyclopedia of Information Systems.*** Hossein Bidgoli. 4 vols. Boston: Academic Press, 2003.  
**Fenwick Reference T585.E535 2003**

***Desktop Encyclopedia of the Internet.*** Nathan J. Muller. Boston: Artech House, 1999.  
**Fenwick Reference TK5105.M85696 1999**

***Encyclopedia of Computer Science and Technology.*** Jack Belzer, Albert G. Holzman and Allen Kent, eds. 45 vols. New York: Marcel Dekker, 1975-current.  
**Fenwick Reference QA76.15.E5**

**Encyclopedia of Microcomputers.** Allen Kent, James G. Williams and Rosalind Kent, eds. 28 vols. New York: Marcel Dekker, 1988-current.

**Fenwick Reference      QA76.15.E52 1988**

**Microsoft Encyclopedia of Security.** Mitch Tulloch. Redmond, Wash. : Microsoft Press, 2003.

**Fenwick Reference      QA76.9.A25 T85 2003**

**Encyclopedia of Computers and Computer History.** Raul Rojas. 2 vols. Chicago: Fitzroy Dewborn, 2001.

**Fenwick Reference      QA76.15.E53 2001**

**Encyclopedia of Information Systems.** Hossein Bidgoli. 4 vols. Boston: Academic Press, 2003.

**Fenwick Reference      T58.5.E535 2003**

**Encyclopedia of Software Engineering.** John J. Marciniak, ed. 2 vols. New York: Wiley, 2002.

**Fenwick Reference      QA76.758.E53 2002**

**Encyclopedia of Networking.** Werner Feibel. San Francisco, CA: Network Press, 2000.

**Fenwick Reference      TK5105.5.F44 2000**

## DICTIONARIES

**The Computer and Information Science and Technology Abbreviations and Acronyms Dictionary.**

David W. South. Boca Raton: CRC Press, 1994.

**Fenwick Reference      QA76.15.S63 1994**

**Data and Telecommunications Dictionary.** Julie K. Petersen. Boca Raton: CRC Press, 1999.

**Fenwick Reference      TK5102.P48 1999**

**The Dictionary of Computer Graphics and Virtual Reality.** Roy Latham. New York: Springer, 1995.

**Fenwick Reference      T385.L38 1995**

**Dictionary of Networking.** Peter Dyson. San Francisco: Network, 1999.

**Fenwick Reference      TK5105.D95 1999**

**Prentice Hall's Illustrated Dictionary of Computing.** Jonar C. Nader, 3<sup>rd</sup> ed. New York: Prentice Hall, 1998.

**Fenwick Reference      QA76.15.N33 1998**

**Microsoft Internet and Networking Dictionary.** Microsoft. Redmond, Washington : 2003.

**Fenwick Reference      TK5105.5.M5474 2003**

**Webster's New World Computer Dictionary.** Bryan Pfaffenberger. Indianapolis, Ind.: Wiley, 2003.

**Fenwick Reference      QA76.15.P395 2003**

**Internet Security Dictionary.** Vir Phoha. New York: Springer, 2002.

**Fenwick Reference      TK5105.59.P56 2002**

## SPECIALIZED REFERENCE SOURCES

**Collected Algorithms from ACM.** New York: Association for Computing Machinery.  
Fenwick Reference QA76.95.A75

**Computer Sourcebook.** Alfred and Emily Glossbrenner. New York: Random House, 1997.  
Fenwick Reference QA76.15.G560 1997

**Handbook of Human-Computer Interaction.** Martin G. Helander, Thomas K. Landauer, Prasad V. Prabhu, eds. 2<sup>nd</sup> ed. New York: Elsevier, 1997.  
Fenwick Reference QA76.9.H85.H36 1997

**Software Engineer's Reference Book.** John A. McDermid, ed. Oxford: Butterworth-Heinemann, 1991.  
Fenwick Reference QA76.758.S647 1990

**Computer Security Reference Book.** K. M. Jackson and J. Hruska, eds. Boca Raton, Fla: CRC Press, 1992.  
Fenwick Stacks QA76.9.A25 C656 1992

## ARTICLE INDEXES AND DATABASES

Use these resources to retrieve citations or the full-text of articles from journals, conference proceedings, book reviews and product reviews. The following databases are available from the Libraries' web page, <http://library.gmu.edu>. From this site, select Databases by Subject Area then Engineering and Technology. Those with a print version are listed with the print title and call number in Fenwick Indexes, located in the Reference Room. Indexes available in print only are listed as well.

**Association for Computing Machinery (ACM) Digital Library**, (1985-present).  
Full text from 1985 to the publications for one of the world's largest computing societies.

**Citeseer**, (no established date).  
Popular citation analysis tool devoted mainly to computer science.

**Compendex- Computerized Engineering Index**, (1985-present).  
**Engineering Index Monthly**, (1976-present) Fenwick Indexes A1.E57  
Abstracts and bibliographic citations for worldwide engineering and technical literature in all engineering disciplines.

**Computer and Information Systems Abstracts**, (1981-present).  
Major areas of computer technology such as AI, automation, CAD/CAM, imaging, logic, engineering physics and more.

**Computer Database**, (1998-present).  
Abstracts and full-text of product introductions, news and reviews in hardware, software, communications, engineering and more.

**Dissertation Abstracts International**. (1861-present; abstracts since 1980; full-text since 1997).  
The complete range of academic subjects appearing in dissertations accepted by accredited institutions.

**Faulkner Advisory for IT Studies.** (2000-present).  
Reports on trends and other areas of interest to those in IT.

**IEEE/IEL Electronic Library,** (1988-present).  
Full-text of many journals, conference proceedings and technical standards of the electrical engineering organizations IEEE and IEE.

**INSPEC,** (1969-present).  
Abstracts from scientific and technical publications in physics, electrical engineering, electronics, computing and control, and information technology.

**Internet and Personal Computing Abstracts,** (1989-present).  
Covers latest information on personal computing products and related business and industry.

**MathSciNet,** (1940-present)  
**Current Mathematical Publications,** (1986-present) **Fenwick Indexes** **QA36.C85**  
**Mathematical Reviews,** (1940-79 and 1993-97) **Fenwick Indexes** **QA1.M3**  
MathSciNet is the online version for both: Mathematical Reviews- a resource of international periodical, book, and video reviews in mathematics, computer science, statistics, econometrics and other applications areas; and Current Mathematical Publications- a subject index of bibliographic data for recent and forthcoming publications.

**National Technical Information Service (NTIS),** (1964-present)  
**Government Reports Announcements and Index,** (1968-1996) **Fenwick Indexes** **T45.G6**  
An index of government sponsored research reports in areas such as engineering, biotechnology, the environment and more. See the Libraries' Technical Reports research guide for more information.

**ScienceDirect,** (coverage varies).  
Online access to over 600 journals published by Elsevier and its partners.

**Science Citation Index- Web of Science,** (1980-present).  
**Science Citation Index,** (1961-1979), **Fenwick Indexes** **Q1.S3**  
A database for searching citations to journal articles as well as literature searches in over 160 science disciplines.

**SpringerLink,** (coverage varies).  
Provides online access to 400+ journals and book series (including Lecture Notes in Computer Science) published by its partners.

### Print-Only Indexes

**ACM Guide to Computing Literature,** (1977-1997) **Fenwick Indexes** **QA76.C5854**  
Index by subject and title to major computing journals, conferences and symposia, dissertations, reports and contents of Computing Reviews.

**CompuMath Citation Index, (1986-1999)** **Fenwick Indexes** **QA36.C84**  
Similar to Science Citation Index mentioned above, but the journals indexed are specific to mathematical and computational fields.

**Computer Literature Index,** (1980-2002) **Fenwick Indexes** **QA76.Q3**

**Computing Reviews,** (1960-present) **Fenwick Indexes** **QA76.C66**  
Signed reviews of books and journal articles in computing sciences. Published by ACM.

## OTHER SOURCES OF INFORMATION

**Library Catalog.** Search the catalog by keyword, author, or title to find items owned by the Libraries. Search online at <http://library.gmu.edu/resources/catalogs.html>

**WRLC Catalog.** The Washington Research Library Consortium (WRLC) system. With a valid GMU identification card you may request circulating books and journal articles directly from the WRLC Libraries Catalog at <http://www.aladin.wrlc.org>. Items are sent to GMU within two business days.

Note: Although GMU's library records are in the WRLC Catalog, records should be checked in the GMU Library Catalog for a thorough search of GMU's holdings and to availability of an item.

**WorldCat.** Search for books and other materials in libraries worldwide. Select WorldCat from: <http://library.gmu.edu/resources/catalogs.html>

**Interlibrary Loan (ILL)** is available at no cost to valid GMU cardholders. The ILL office will find a copy of any circulating book, journal article conference proceeding paper, dissertation, etc. not owned by GMU or WRLC and will make it available to the borrower for a set amount of time. Turnaround time between date of request and availability of item varies; two weeks is average. Submit requests online at <http://library.gmu.edu/services/ill.html>

Revised 4/06 by K. Jordan, Fenwick Library, George Mason University.