



# Library **COMPUTER SCIENCE** Resources

<http://www.library.astate.edu>

Many types of resources are available to you through the Dean B. Ellis Library. This guide is intended to help you find both print and online computer science resources. Please note: this guide is only a starting point for your research, it is not meant to be a comprehensive list of resources. If you need further assistance, please visit the Reference Desk in the library.

## Finding Books in the Dean B. Ellis Library

All books in the library are arranged by subject using the Library of Congress classification system for call numbers and subject headings. The call numbers for computer science begin with “**QA**” and “**TK**”. The basic breakdown is as follows:

- QA75 – QA76.95 - Calculating Machines
- QA75.6 – QA76.95 - Electronic Computers, Computer Science
- QA76.75 – QA76.765 - Computer Software
- TK5101 – TK6720 - Telecommunications; including Telegraphy, Telephone, Radio, Radar, Television
- TK7885 – TK7895 - Computer Engineering, Computer Hardware

The numbers that follow the beginning letters relate to a narrower focus of the subject. For example, TK7885 – TK7895 represent books about computer engineering and hardware. Within these subjects is Microelectronic Design of Fuzzy Logic-Based Systems with a call number of TK7888.3 .M535 2000.

## Selected Reference Books

*The reference collection is located on the second floor of the library.*

Dahlin, Caryl Ann, Anthony Ralston, and Edwin D. Reilly, ed. Encyclopedia of Computer Science. 3rd ed. New York: Van Nostrand Reinhold, 1993. **REF QA76.15 .E48 1993**

Edition XII Guide to Postgraduate Computer Science, Mathematics and Information Technology Studies in Europe and North America. London: Edition XII, LTD, 1995. **REF LE900 .E54**

Elsevier's Dictionary of Computer Science and Mathematics: in English, German, French, and Russian. New York: Elsevier, 1995. **REF QA76.15 .D44313 1995**

Khosrowpour, Mehdi, ed. Encyclopedia of Information Science and Technology. Hershey, PA: Idea Group Reference, 2005. **REF Z1006 .E566 2005**

Leondes, Cornelius T., ed. Knowledge-based Systems: Techniques and Applications. San Diego: Academic, 2000. **REF QA76.76.E95 K5559 2000**

Rojas, Raul, ed. Encyclopedia of Computers and Computer History. Chicago: Fitzroy Dearborn, 2001. **REF QA76.15 .E53 2001**

Wang, John, ed. Encyclopedia of Data Warehousing and Mining. 2 Vols. Hershey, PA: Idea Group Reference, 2006. **QA76.9.D37 E52 2006**

## Recent Circulating Books

*\*\*You can use the call number to browse the shelf for similar materials\*\** Circulating books are labeled "General Collection" in the online catalog and are located on the third, fourth, and fifth floors of the library. If these books are checked out you may place a recall or hold at the Circulation desk.

Abramsky, S., Dov M. Gabbay, & T.S.E. Maibaum. Handbook of Logic in Computer Science. New York: Oxford UP, 1992. **QA76 .H2785 1992**

Aho, Alfred V. Foundations of Computer Science. New York: Computer Science, 1992. **QA76 .A334 1992**

Atallah, Mikhail J., ed. Algorithms and Theory of Computation Handbook. Boca Raton: CRC, 1999. **QA76.9.A43 1999**

Babbage, C. Charles Babbage and His Calculating Engines: Selected Writings. New York: Dover Publication, 1961. **QA75 .B28 1961**.

Campbell-Kelly, M. & W. Aspray. Computer: A History of the Information Machine. 1st ed. New York: Basic Books, 1996. **QA76.17 .C36 1996**.

Christian, K. The UNIX Operating System. New York: Wiley, 1983. **QA76.6 .C456 1983**.

Dean, Thomas L. Talking with Computers: Exploration in the Science and Technology of Computing. New York: Cambridge UP, 2004. **QA76 .D3328 2004**

Harvey, Brian. Simply Scheme: Introducing Computer Science. Cambridge: MIT P, 1999. **QA76 .H3475 1999**

Held, G. Data and Computer Communications: Terms, Definitions, and Abbreviations. Chichester, England; New York: Wiley, 1989. **TK5102 .H45 1989**.

Herbert, Andrew, and Karen Spark Jones, eds. Computer Systems: Theory, Technology, and Applications: A Tribute to Roger Needham. New York: Springer, 2004. **QA76.9 .S88 H45 2004**

Karhumaki, Juhani...[et al.]. Jewels are Forever: Contributions on Theoretical Computer Science in Honor of Arto Salomaa. New York: Springer, 1999. **QA76 .J48 1999**

McCartney, S. ENIAC, the Triumphs and Tragedies of the World's First Computer. New York: Walker, 1999. **QA76.5 .M15 1999**.

Moreau, R. The Computer Comes of Age: The People, the Hardware, and the Software. Cambridge: MIT P, 1984. **QA76.17 .M6713 1984**.

Orwant, Jon, ed. Computer Science and Perl Programming: Best of the Perl Journal. Cambridge: O'Reilly, 2003. **QA76.73.P22 C383 2003**

Patterson, D. A., D. Goldberg, & J.L. Hennessy. Computer Architecture: A Quantitative Approach. 2nd ed. San Francisco: Morgan Kaufmann, 1996. **QA76.9.A73 P377 1996**.

Pratt, T. W., & M.V. Zelkowitz. Programming Languages: Design and Implementation. 4th ed. Upper Saddle River: Prentice Hall, 2000. **QA76.7 P7 2001**.

Silberschatz, A. & P.B. Galvin. Operating System Concepts. 4th ed. Reading: Addison-Wesley, 1994. **QA76.76.O63 S5583 1994**.

Tanenbaum, A. S. Modern Operating Systems. 2nd ed. Upper Saddle River: Prentice Hall, 2001. **QA76.76.O63 T359 2001**.

## Online Article Databases, Indexes & Abstracts

*Some of these databases provide the full text of the articles, while others provide only citations and/or abstracts. All are accessed by clicking on the "Article Databases" link from the library homepage.*

Database	Citations/ Abstracts	Full Text	Other Information
<b>Academic Search Premier</b>	Yes	Yes	Some articles available full text
<b>Article1st</b>	Yes	No	Provides citations and abstracts only
<b>Electric Library</b>	Yes	Yes	Some articles available full text

## Print Indexes and Abstracts

*Indexes and abstracts will also lead you to journal and magazine articles on your topic. The printed indexes and abstracts are located in the Reference area of the library.*

Computer Literature Index  
Microcomputer Abstracts

## Selected Print Journals in the Dean B. Ellis Library

*Print journals from 1980 to present are located on the second floor in the tower. Older print journals are currently on the third floor. All are shelved alphabetically by the title of the journal.*

Behavior Research Methods, Instruments, & Computers  
Computer Communication Review  
Computer Journal

Computers and People  
Journal of Computer and System Sciences  
Journal of Computer Information Systems

## Selected Electronic Journals

*Electronic journals are accessed via the library's web page by clicking on "Article Databases".*

Electronic Journal Title	Database
Computer Assisted Language Learning	<b>Academic Search Premier</b>
Computer Conference Analysis Newsletter	<b>Business Source Elite</b>
Computer Protocols	<b>Academic Search Premier</b>
Computer Science Education	<b>Academic Search Premier</b>
Computer Security Update	<b>Academic Search Premier</b>
Computer Weekly	<b>LexisNexis Academic</b>
Computerworld	<b>Electric Library</b>
Information Management & Computer Security	<b>ABI/Inform Complete</b>
International Review of Law, Computers, & Technology	<b>ABI/Inform Complete</b>
Journal of Computer Security	<b>Academic Search Premier</b>

## Government Information Resources

Buydos, John F. Nanotechnology. Washington, D.C.: Science Reference Section, Science, Technology, and Business Division, Library of Congress, 2003. **LC 33.10:03-3**

Symposium on Computer Network Attack and International Law. Computer Network Attack and International Law. Newport: Naval War College, 2002. **D 208.207:76**

## Web Sites

<http://iinwww.ira.uka.de/bibliography/> This is a collection of bibliographies of scientific literature in computer science from various sources, covering most aspects of computer science. The bibliographies are updated monthly from their original locations such that you'll always find the most recent versions here.

<http://eccc.uni-trier.de/eccc/> Electronic Colloquium on Computational Complexity

<http://www.computer.org/> IEEE Computer Society Web Page

[http://www.lib.uwaterloo.ca/society/compsci\\_soc.html/](http://www.lib.uwaterloo.ca/society/compsci_soc.html/) Scholarly Societies in Computing Science

<http://www.acm.org/> Association for Computing Machinery

## Selected Microforms

*Microforms are located on the second floor of the library. You may make prints from the microfiche and microfilm for 10 cents per page.*

United States.Congress.House.Committee on Government Reform. Government Network Security Act of 2003: Report (to H.R. 3159) (including cost estimate of the Congressional Budget Office) [Microfiche]. Washington: GPO, 2003. **Y 1.1/8:108-305**

United States.Congress.Senate.Committee on the Judiciary.Subcommittee on Administrative Oversight and the Courts. FBI Computers: 1992 Hardware, 2002 Problems: Hearing Before the Subcommittee on Administrative Oversight and the Courts of the Committee on the Judiciary, United States Senate, One Hundred Seventh Congress, Second Session, July 16, 2002 [Microfiche]. Washington: GPO, 2003. **Y 4.J 89/2:S.HRG.107-989**

United States.Congress.House.Committee on Government Reform.Subcommittee on Technology, Information Policy, Intergovernmental Relations, and the Census. Worm and Virus Defense: How Can We Protect the Nation's Computers From These Threats?: Hearing Before the Subcommittee on Technology, Information Policy, Intergovernmental Relations and the Census of the Committee on Government Reform, House of Representatives, One Hundred Eighth Congress, First Session, September 10, 2003 [Microfiche]. Washington: GPO, 2004. **Y 4.G 74/7:V 81**

United States.Congress.House.Committee on Science. Cyber Security Research and Development: Hearing Before the Committee on Science, House of Representatives, One Hundred Eighth Congress, First Session, May 14, 2003. [Microfiche]. Washington: GPO, 2003. **Y 4.SCI 2:108-17**