



Subject Guide to Computer Science

Browsing the Computer Science Collection

The call numbers for computer science are below. In the event that you do not find what you are looking for by simply browsing, please consult the library catalog.

QA 75-76.95	Calculating Machines
QA 75.5-76.95	Electronic Machines. Computer Science.
QA 76.75-76.765	Computer Software
QA 801-939	Analytic Mechanics
ZA 3038-5190	Information Resources (General)
ZA 3150-3159	Information Centers
ZA 3201-3250	Information Superhighway
ZA 4050-4480	Electronic Information Resources
ZA 4150-4380	Computer Network Resources
ZA 4450-4460	Databases
ZA 5049-5190	Government Information

Selected Reference Books

- 📖 **Milestones in Computer Science and Information Technology** [QA76 .R434 2003 Ref] – provides general information in the form of articles, cited references, top 10 consolidated milestones, and 4 indexes.
- 📖 **Dictionary of Computer Science, Engineering, and Technology** [QA76.15 .D5258 2001 Ref] – offers workable definitions and practical information. Some 7,500 terms are defined, encompassing subjects from artificial intelligence to programming languages, from software engineering to operating systems.
- 📖 **Encyclopedia of Computers and Computer History** [QA76.15 .E53 2001 Ref, 2 volumes] – includes 600 articles covering the full history of computing from the abacus to eBay. Biographies of major figures in the history of computers, company background, and lists of computer terminology as well as profiles of pioneering computers such as the ENIAC and Commodore 64 are provided.
- 📖 **Encyclopedia of Computer Science** [QA76.15 .E48 2000 Ref] –contains alphabetically arranged entries which are classified into broad subject areas, including hardware, computer systems, information and data, software, the mathematics of computing, theory of computation, methodologies, applications, and computing milieu.
- 📖 **Dictionary of Acronyms and Technical Abbreviations: For Information and Communication Technologies and Related Areas** [TK5102 .V55 2001 Ref] - discloses information and communication technology (ICT), including hardware and software; information networks, including the Internet and the World Wide Web; automatic control; and ICT-related computer-aided fields. The Dictionary also lists abbreviated names of relevant organizations, conferences, symposia and workshops.
- 📖 **Computer Science and Computing: A Guide to Literature** [QA76. K56 2006 Ref] – presents entries and complete bibliographic information for print and online reference sources relating to computer science and computing. An excellent starting point for the computer science researcher
- 📖 **The Internet: A Historical Encyclopedia** [TK 5105.875 .I57 I5372 2005 Ref, 3 volumes]-contains entries ranging in length from one-half page to three pages on a variety of topics including biographies of individuals important to Internet history and development (Volume I); a chronology of Internet history (Volume II); and past and present issues concerning the Internet and its uses (Volume III).
- 📖 **Dictionary of Computing, sixth edition** [QA 76.15 .D526 2008 Ref]-provides brief and uncomplicated definitions for a number of computer and computer science-related terms. The entries are in alphabetical order and cross-reference readers to other entries as needed. The work also contains extremely useful appendices.

Selected Databases

- 📖 **Computer Science Index** [EBSCOhost] ^{Off-Campus} – Covering all computer science matters, this database provides indexing and abstracting for over 6,500 journals and books.
- 📖 **Computer Source** [EBSCOhost] ^{Off-Campus Full-Text} – Journal coverage for all technology-related issues in 450 journal and magazines.
- 📖 **General Science Collection** [EBSCOhost] ^{Off-Campus Full-Text} – offers full-text for over 60 popular science journals and magazines.
- 📖 **Information Science and Technology Abstracts** [EBSCOhost] ^{Off-Campus} – Indexing coverage for approximately 450 reports, conference proceedings, journals, and books concentrating on all areas of information science.
- 📖 **Internet and Personal Computing Abstracts** [EBSCOhost] ^{Off-Campus} – Provides abstracts and indexing for literature related to personal computing products and developments in business, the Internet, the home, and all other applied areas.
- 📖 **NetLibrary** ^{Off-Campus Password Full-Text} – provides access to 27,000+ e-books, including 204+ books pertaining to computer science. Other books on topics ranging from Charles Babbage to nanotechnology can be found in this database as well. You must create an online account ON CAMPUS to access NetLibrary off-campus.
- 📖 **Science.gov** ^{Off-Campus} – covers computer science and other authoritative selected science information provided by U.S. Government agencies, including research and development results.
- 📖 **Scirus** (1930-present) ^{Off-Campus} – provides access to scholarly and authoritative journal/Internet literature for computer science, math, biology, chemistry, and space technology.

Selected Web Sites

- 🔗 **Association for Computing Machinery (ACM)** [<http://portal.acm.org>] –presents links to selected online full-text ACM journal articles and conference proceedings as well as acting as a portal for ACM Digital Library online holdings. Advanced searching is available within the Digital Library pages.
- 🔗 **Google Scholar** [<http://scholar.google.com>] - provides a simple way to broadly search for scholarly literature. From one place, you can search across many disciplines and sources: peer-reviewed papers, theses, books, abstracts and articles, from academic publishers, professional societies, preprint repositories, universities and other scholarly organizations. Google Scholar helps you identify the most relevant research across the world of scholarly research.
- 🔗 **World Academy of Science** [<http://www.world-academy-of-science.org>] – provides links to information about International Conferences in the field of computer science.
- 🔗 **University of Minnesota, Twin Cities – Charles Babbage Institute** [<http://www.cbi.umn.edu>] – research center dedicated to the preservation of the history of information processing.
- 🔗 **National Center for Supercomputing Applications (NCSA)** [<http://www.ncsa.uiuc.edu>] – NCSA is one of the 5 original centers in the National Science Foundation’s Supercomputer Centers Program. It allows visitors access to news, major project information, cybertechnologies, cybereducation, and science communities.
- 🔗 **State University of New York, University of Albany University Libraries** [<http://library.albany.edu/subject/csci.htm>]- an extensive index for a multitude of online computer science related websites covering such topics as software tutorials, technical news and blogs, and writing style guides.
- 🔗 **Open Directory Project (dmoz)** [<http://www.dmoz.org/>]-“is the largest, most comprehensive human-edited directory of the Web”. The directory is divided into broad topic headings and then subdivided into smaller, more in-depth topics. Thousands of computer science sites are available and all are linked from the dmoz directory.
- 🔗 **Los Alamos National Research Library** [<http://library.lanl.gov/>]-this site, which provides online information resources for the Los Alamos National Laboratory in New Mexico, presents a well-developed “Resources by Subject” link for Computer Science information. Open-access information materials, such as encyclopedias and dictionaries relating to computing and computers, are provided as well as links to computing journals, organizations, and software and languages sites.
- 🔗 **ArXiv.org/Cornell University Library** [<http://arxiv.org/>]- “an e-print service in the fields of physics, mathematics, non-linear science, computer science, quantitative biology, and statistics”. Information is open access and contains more than 551, 760 prints (arXiv.org).
- 🔗 **Computer Science/Dartmouth College Library** [<http://libguides.dartmouth.edu/content.php?pid=6050&sid=40251>]- created as a resource guide by Dartmouth College librarians for computer science and related subjects, the guide offers valuable links and information for computer science –oriented materials.

*Roberts-LaForge Library also provides electronic access to several journals through its Full Text Electronic Journals Holdings page located at <http://cj3rg3sg7d.search.serialssolutions.com/>. Searches may be done by subject or title. Some titles may overlap with the library’s print subscriptions.