

Databases, electronic journals, and library services for researchers in the field of computer science.

Resources in Computer Science: <https://library.pnl.gov/resourcebysubject.asp?subjectid=14>

This Web page contains links to databases and full-text journals via Hanford Technical Library subscriptions, as well as other relevant computer science-related Web sites.

Databases:

ACM Portal: <http://portal.acm.org/>

This database allows you to search, browse, and read full-text journal articles, transactions, and proceedings published by the Association for Computing Machinery (ACM). In most cases, each journal within this database makes available the first issue through the current issue. A tip sheet is available at <https://library.pnl.gov/tipsheet/acm.pdf>.

Compendex:

<http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearch&database=COMPENDEX>

Compendex is the definitive bibliographic database for engineering literature and contains over 10 million citations from 1884 to the present. Coverage spans 175 engineering disciplines including electronics and communications engineering and computers and data processing. A tip sheet is available at http://www.ei.org/userfiles/ProductSheets/EV-Functionality-LoRes_112008.pdf. Users can also search *Compendex* and *INSPEC* simultaneously (see below).

Computing Reviews: <http://www.reviews.com/>

Computing Reviews allows you to access expert and unbiased critical reviews of current research, theory, and applications in all sub-disciplines of computing. It helps you survey the field as a whole and isolate quality research materials. You can set up a profile to search for specified keywords, authors or subject areas, and receive email notification of matching items. Tip sheets are available at http://www.reviews.com/help/help_tipsheet.cfm.

IEEE Xplore: <http://ieeexplore.ieee.org/>

IEEE Xplore provides access to abstracts and full-text publications of the Institute of Electrical and Electronics Engineers (IEEE) and Institution of Electrical Engineers (IEE) from 1988 to the present with a selected back file to 1950. The Hanford Technical Library subscription includes access to IEEE journals, transactions, magazines, conference proceedings, and current standards, and IEE journals and conference proceedings. A tip sheet is available at http://www.ieee.org/portal/cms_docs_iportals/iportals/publications/subscriptions/clientservices/promote/tools/IEEE_Xplore_Guide.pdf.

INSPEC: <http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearch&database=INSPEC>

INSPEC is published by IEE (Institute of Electrical Engineers) and contains over 9 million records from 1896 to the present. The specialized focus is on literature published in the areas of electrical engineering, computing and control, physics, and information technology. A tip sheet is available at http://www.ei.org/userfiles/ProductSheets/EV-Functionality-LoRes_112008.pdf. Users can also search *Compendex* and *INSPEC* simultaneously (see above).

SPIE Digital Library: <http://spiedl.org>

The SPIE Digital Library is the most extensive resource available on optics and photonics, providing unprecedented access to more than 260,000 technical papers from SPIE Journals and Conference Proceedings from 1990 to the present. More than 17,000 new research papers are added annually. A tip sheet is available at: <http://spie.org/x34642.xml>.

Web of Science: <http://isiknowledge.com/wos>

This Web-based version of *Science Citation Index* allows users to search for articles by title, keywords, journal title, and author as well as by cited reference. The database also indexes several monograph series including *Lecture Notes in Computer Science*. Information obtained is from 1970 to the present. A tip sheet is available at <http://scientific.thomson.com/media/scpdf/webofscienceqrc.pdf>.

Electronic Journals: <https://library.pnl.gov/journals.asp>

The Hanford Technical Library subscribes to over 9,000 electronic journals. Journals are listed by title, subject, and publisher. The Hanford Technical Library's electronic journal collection includes computer science titles from major publishers including Elsevier, Springer Verlag, Wiley Interscience and many others.

Electronic Books: <https://library.pnl.gov/ebooks.asp>

The Library subscribes to over 17,000 eBooks on several platforms. **Springer** provides the bulk in computer science <http://springerlink.com/computer-science/> and professional and applied computing <http://springerlink.com/professional-and-applied-computing/>. The green box (■) indicates full-text access. All chapters are available as separate PDF files.

Safari Techbooks Online: <http://techbus.safaribooksonline.com/>

The Safari Techbooks Premium Library Online is an end-user service offering thousands of technology, interactive media and business management books, videos and certification guides and more. Contact the Library Administration Office, 372-7450, for account costs and more information.

Internet Sites: Additional resources at <https://library.pnl.gov/resourcetypebysubject.asp?subjectid=14&resourcetypeid=2>

CiteSeer - The NEC Research Institute Scientific Literature Digital Library: <http://citeseer.ist.psu.edu/>

CiteSeer aims to improve the dissemination and feedback of scientific literature. Rather than creating just another digital library, CiteSeer provides algorithms, techniques, and software that can be used in other digital libraries.

DOE Cyber Incident Response Capability: <http://www.doecirc.energy.gov/>

This site provides the DOE community with incident response, reporting, and tracking, along with other computer security support. DOE-CIRC is a member of GFIRST, the Government Forum of Incident Responders and Security Teams and FIRST an international incident response and security organization.

CoRR - Computing Research Repository: <http://arxiv.org/corr/home>

This site provides abstracts and full-text research papers covering multiple disciplines within the computer science field. The site is sponsored by the ACM, the Los Alamos arXiv.org e-Print archive, Networked Computer Science Technical Reference Library, and the American Association for Artificial Intelligence.

Dictionary of Algorithms and Data Structures: <http://www.itl.nist.gov/div897/sqg/dads/>

This online dictionary from the National Institute of Standards and Technology contains algorithms, algorithmic techniques, data structures, archetypical problems, and related definitions. Some entries have links to implementations and more information.

Numerical Recipes Books Online: <http://www.nrbook.com/a/>

Online access to the obsolete versions of Numerical Recipes books in C, Fortran 77, and Fortran 90, in both postscript and Adobe Acrobat formats. Access provided with special permission from Cambridge University Press.

Library Services:

Document Delivery & Interlibrary Loan: Articles available at the Hanford Technical Library can be photocopied or scanned and delivered to you. If the Library does not own an article you need, a copy can be ordered. If the Library doesn't own a book that you need, we can request it from another library.

Literature Searches & Reference Assistance: Information Specialists are available weekdays between 8-5:00 pm PST to assist you with your information needs and to answer questions about library services and collections. For assistance, contact the Information Desk (509-372-7430) or <mailto:pnl.techlib@pnl.gov>.