Access to the IEEE and ACM Digital Libraries is limited to current Suffolk University students and faculty. To access the IEEE and ACM collections go to the Sawyer Library web page at www.suffolk.edu/sawlib/sawyer.htm. Select Databases by Subject. The IEEE and ACM are listed under the Sciences.

**IEEE Digital Library**

Founded in 1946, the Institute of Electrical and Electronics Engineers (IEEE) Computer Society is the world’s leading organization of computing professionals. It is the largest of the 39 societies of the IEEE.

The IEEE Computer Society Digital Library offers electronic access to 25 society magazines and transactions, and over 2,600 conference proceedings.

Topical areas include the expected subjects such as computation, internet & data technologies, IT & security, networking, hardware and software, mobile computing, artificial intelligence, graphics & multimedia, and topics regarding the use of technology in other disciplines, such as biotechnology.
IEEE Computer Society Periodicals:

The IEEE Computer Society's periodicals consist of a collection of technical magazines, journals (known as Transactions), and the IEEE Computer Architecture Letters, which is also a scholarly publication.

The IEEE Computer Society's Peer Review Notice states that "all scientific papers published in its journals and technical magazines are reviewed by at least two referees who are experienced in the paper’s subject area and independent of the periodical's Editorial Board."
The Advanced Search:

The Advanced Search serves as the default for users coming from Suffolk University. It allows a customized search of all subscribed content: journals, technical magazines, and conference proceedings.

Terms may be specified to appear anywhere in the full text; in the title; as the author name, date, or ISBN field. Multiple terms may be designated as an exact phrase.

The Author Name Search:

A search for an author's last name will generate a list of authors whose names contain that term. For example, a search for "Smith" will generate a list of all the Smiths, as well as any Goldsmiths, Highsmiths, or hyphenated names with Smith. Click the chosen full name to access all articles by that author.

Note: the same author may have more than one listing, for example, "Bob Smith" might also appear as "B. Smith".
Search Conference Proceedings:

Users have the option to search for papers delivered at conferences by title, conference name, acronym, and full text.

Sample search in the IEEE Digital Library:

The bulk of the material in the IEEE Computer Society's Digital Library is of interest primarily to those in computer science, however since the applications of computer science have changed the landscape of many other disciplines, researchers in other areas may benefit by trying some searches here.

In this example, the term "voting" is placed in the document title, and "electronic" may appear anywhere in the text.

Users who are not from the computer sciences should expect the resulting articles to be quite technical. However, those who are
interested either in the nuts and bolts behind the newest applications of technology, or in browsing for upcoming developments that have yet to be introduced to the mainstream, may find interesting ideas here.
The Association for Computing Machinery (ACM) describes the Digital Library as "a vast collection of citations and full text from ACM journal and newsletter articles and conference proceedings," and more specifically as "the full-text repository of papers published by ACM and by other publishers that have co-publishing or co-marketing agreements with ACM.

A complete contents list of the ACM Digital Library (Journals, Transactions, Magazines, Publications by Affiliated Organizations, SIG - special interest group - Newsletters, and Conference Proceeding Series,) is posted off of the FAQ page.

Users may also browse content by publication type.

- **Browse the Digital Library:**
  - Journals
  - Magazines
  - Transactions
  - Proceedings
  - Newsletters
  - Publications by Affiliated Organizations
  - Special Interest Groups (SIGs)
  - ACM Oral History interviews


The Guide to Computing Literature:

In addition to the Digital Library, the ACM Portal also provides access to the Guide to Computing Literature.

Unlike the Digital Library, the Guide is not a full text collection, rather it is a collection of bibliographic citations and abstracts of works from major publishers in computing, including the ACM and other organizations such as the IEEE.

The Guide provides access to over 750,000 citations from 3,000+ publishers, covering materials such as:

- books
- journal articles
- conference proceedings
- doctoral dissertations
ACM Search Features

The advanced ACM Digital Library search allows for:

- the specific placement of terms: (title, abstract, review),
- a name search for author or editor,
- a search by name of publication,
- a search by conference sponsor,
- a search by author affiliation,
- and a search using the Computing Classification System.
The Advanced Search for the Guide to Computer Literature has the same options as the ACM Digital Library Advanced Search.

Sample search in the ACM Digital Library:

The ACM Digital Library, like the IEEE Digital Library, contains highly technical articles on computer science topics, however users who are interested in the applications of these technologies may find some useful information here.
1. **When opinion leaders blog: new forms of citizen interaction**
   Andrea Kavanaugh, Than Than Zin, John M. Carroll, Joseph Schmitz, Manuel Pérez-Quiñones, Philip Isenhour
   May 2006  *dg.o* ’06: Proceedings of the 2006 international conference on Digital government research
   **Publisher:** ACM
   Full text available: [pdf (333.54 KB)](#)  Additional Information: full citation, abstract, references, index terms
   **Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 387, Citation Count: 0
   Web logs (i.e., blogs) provide enhanced opportunities to extend capabilities of traditional electronic mail and discussion lists, especially in the hands of opinion leaders; such tools offer greater social interaction and informal discussion, and opportunities ...
   **Keywords:** computer mediated communication, empirical methods, internet, social computing, survey research

2. **Blog analysis and mining technologies to summarize the wisdom of crowds**
   Belle L. Tseng
   August 2007 *MDM ’07*: Proceedings of the 8th international workshop on Multimedia data mining:
   (associated with the ACM SIGKDD 2007)
   **Publisher:** ACM
   Full text available: [pdf (38.79 KB)](#)  Additional Information: full citation, abstract, index terms
   **Bibliometrics:** Downloads (6 Weeks): 29, Downloads (12 Months): 117, Citation Count: 0
   Blogs have become a prominent social media that creates a fast growing social network on the Internet. Blogs enable users to quickly and easily publish content, including highly personal thoughts and professional opinions. Our objective is to understand ...
   **Keywords:** blog analysis, graph analysis