

Research resources for Computer Science and Engineering

There are various resources available for searching literature specific to Engineering and Computer Science. Digital libraries and bibliographic databases including Web of Science and Scopus, provide coverage of journals, conference proceedings, standards, technical reports, patents, etc. These resources are an excellent starting point for searching on a research topic for your

dissertation or a research project.

You may need to search more than one database to cover different aspects of your research. In this task, you will be asked to explore different resources in your subject area.

Where to start

Go to the Radcliffe Science Library web page: www.bodleian.ox.ac.uk/science. Click on Subject Support and then select Engineering or Computer Science. A library guide with resources and information specific to your subject will open. Resources presented on this sheet can also be accessed directly from SOLO by searching their title.

Click on the Databases tab to explore databases and start your search. Detailed information on using **Web of Science** and **Scopus** is provided on separate task sheets.

Browsing papers and conference proceedings

IEEE Xplore

The IEEE Xplore Digital Library provide access to full-text articles, conference papers, standards, etc.

- From the Engineering or the Computer Science LibGuide, under the Database tab, click on the **IEEE Xplore Digital Library** link. You can also access this resource from SOLO by searching its title.
- Enter some keywords for your search in the main search box. For instance, search *home automation*.
- Select *Journals* from the different types of resources shown at the top of the results list. Click on *Apply*.
- You can refine your results further by using filters on the left-hand side of the page. For instance, click *Media* under the *Supplemental Items* filter to see documents accompanied by video or other material.

To browse **conference proceedings**:

- Select *Conferences* from the *Browse* dropdown menu.
- Try searching conferences by title keywords, for instance type *sensor network* in the small search box
- Refine your results to proceedings *published by IEEE* under the *Computing & Processing* topic. Make sure you click on *Apply refinements* for each filter you use.
- Click on the title you are interested in and select the latest available issue to access the most recent papers from that conference.

ACM Digital Library

Engineering Library guide: <http://libguides.bodleian.ox.ac.uk/engineering>

Computer Science Library Guide: http://libguides.bodleian.ox.ac.uk/computer_science

Contact your subject librarian at alessandra.vetrugno@bodleian.ox.ac.uk

ACM Digital Library provide access to full-text articles and conference proceedings published by the Association of Computing Machinery (ACM)

- From the Engineering or the Computer Science LibGuide, under the Database tab click on the **ACM Digital Library** link.
- Look at the available conferences by clicking on *Conference Listing* under *Browse the Conferences*. They are organised by alphabetical order.
- Select one conference from the list by clicking its title, then click on the *Publication Archive* tab.
- Select the latest proceedings from the list and click on the *Table of Contents* tab to access the most recent papers from this conference.

Finding Standards

Finding British Standards Online

You can access British and European standards from the British Standards Online platform:

- From the Engineering or the Computer Science LibGuide, under the 'Standards, Repositories, search engines, etc' tab click on **British Standards Online (BSOL)**. You can also access this resource from SOLO by searching its title.
- Try searching the standard on *Robots and robotic devices. Coordinate systems and motion nomenclatures* "BS ISO 9787:2013". You can search by standard number or using keywords from the title.
- Click on the standard title for more information or click on the .pdf icon to access its full text.

Please note that you'll need the VPN <https://help.it.ox.ac.uk/network/vpn/index> to access BSOL when connected to eduroam or to Wi-Fi connections other than the Bodleian Wi-Fi.

Finding IEEE standards

Alternatively, you can look at **IEEE standards**. They are American standards published by IEEE.

- From the Engineering or the Computer Science LibGuide, under the 'Standards, Repositories, search engines, etc' tab click on **IEEE Xplore**
- Run a search by typing title keywords in the small search box. Try searching *electric power*.
- Click on *Active* on the left, and then click on *Apply Refinements* to view only active standards.
- Select a standard from your results list, click on *Show Version Details* if no version is showing and then on its approved version. Click on the .pdf icon to access its full-text.

Useful e-book series

Click on the e-books tab on the Computer Science or the Engineering LibGuide to access useful e-books series such as *Lecture Notes in Computer Science* and *Lecture Notes in Mathematics*.

The *O'Reilly (formerly Safari) platform* includes ebooks, programming manuals, and online courses on a variate range of topics in computing, data science, business, etc. You will need to register on the website using an .ox.ac.uk email address to access it.

Engineering Library guide: <http://libguides.bodleian.ox.ac.uk/engineering>

Computer Science Library Guide: http://libguides.bodleian.ox.ac.uk/computer_science

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