Finding Quality Information: Library Session for **ENCS 282**

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What we will cover

- Researching the Web
- Library resources for research, including:
 - Specialized databases
 - Library catalogue
 - Subject guides
 - Resources for locating information
- Research tools

Goal: Help you ID & describe a technical problem - **Place it within current research** - Even help you with your budget

Keyword searching

Example topic:

Reducing emissions in snowmobiles

Concept #1:

Snowmobile

Related terms:

- Off road vehicle
- Broader concepts:
- Automobile

Related concepts:

- Internal combustion engine
- Two-stroke or fourstroke engine

Concept #2:

Emissions

Related terms:

- Air pollution
- Noise
- Exhaust
- Fuel consumption
- Performance

Researching the Web

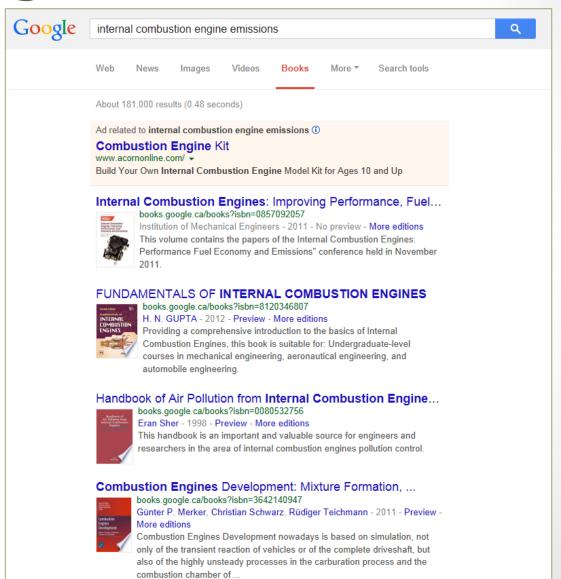
Project: http://articles.sae.org/12805/

- Google Scholar: http://scholar.google.ca/
 - Set up Find it @ Concordia
 http://library.concordia.ca/help/howto/googlescholar.php
 - Set up to use with RefWorks
 http://library.concordia.ca/help/howto/refworks-exporting.php#gs
- Google: https://www.google.ca/
 - Try the Advanced Search

Researching the Web

Google Books:

http://books.google.ca/



Library Resources: Specialized Databases

- Compendex/INSPEC (Engineering Village)
 - Focused on engineering
 - No fulltext
 - Scholarly content

Academic Search Complete

- Multidisciplinary
- Some fulltext
- Scholarly content

ProQuest Business Databases

- Covers industry information
- Some fulltext
- Includes trade journal articles
- Access: http://library.concordia.ca/research/databases/

Combining keywords in databases

• AND:

 Tells the database that words connected with this term MUST APPEAR in the results. Good for NARROWING a search.

• OR:

- Tells the database that at least ONE of the words connected with this term must appear in the results.
 Good for BROADENING a search.
- Phrase searching using "quotes"
- * : Wildcard/Truncation symbol. Usually used at the end of a word and causes the database to find that word with different endings. Ex: manage* would find: manager, managers, management, manageable, etc.

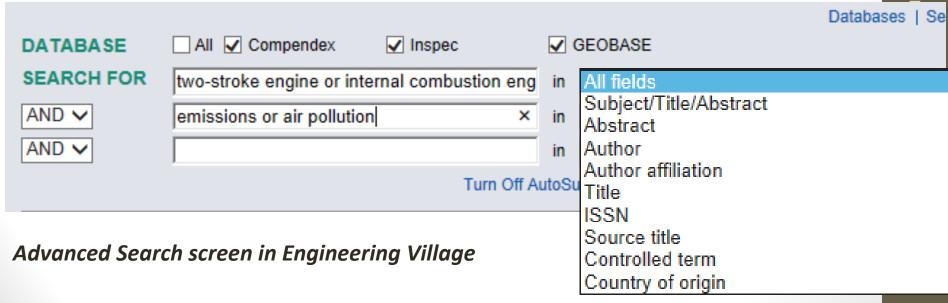
Combining keywords in databases

Example 1:

Two-stroke engine **AND** Emission*

Example 2:

Emission* OR air pollution



catalysts (1561)

More options...

automobile industry (1509)

...and lifecycle costs. Catalytic sensors Single-point

Citation/Abstract Full text

...evaluate both infrared (IR) and catalytic gas-detection devices, as both offer

...in certain applications. Both catalytic and IR detectors rank among industry's

Library Resources:

Library Catalogue

- Concordia Libraries catalogue is called CLUES http://clues.concordia.ca/
- Descriptive record for everything the library owns
- Particularly good for discovering books
- Can tell you if the library has a subscription to a journal

Asif Faiz, Surhid Gautam. "Technical and policy options for reducing emissions from 2-stroke engine vehicles in Asia". *International Journal of Vehicle Design* 34.1 (2004): 1-11.

Library Resources: Subject Guides

- Library Homepage
 http://library.concordia.ca/
- Guides by Subject
 http://library.concordia.ca/#browseSubject_tab
- Guides for Engineering & Computer Science http://library.concordia.ca/research/subjects/?id=engcompsci
 - Capstone & other design classes
 http://library.concordia.ca/research/subjects/eceng/capstone.php

Resources for Locating Information

- Click on "Find it @ Concordia"
- Findit!@Concordia
- Google: search title of article in "quotes" (add author's name if necessary) – must have VPN if off campus
- Check CLUES: http://clues.concordia.ca/
 - Journal title
 - Conference title
 - Book title

Resources for locating information

- What to do if Concordia doesn't have what you want and you can't find it on the Web?
 - CREPUQ/BCI card
 http://library.concordia.ca/services/circulation/crepuq.html
 - Interlibrary Loans (Colombo)
 http://library.concordia.ca/research/ill/
- For additional help: Ask A Librarian http://library.concordia.ca/help/questions/

Research tools

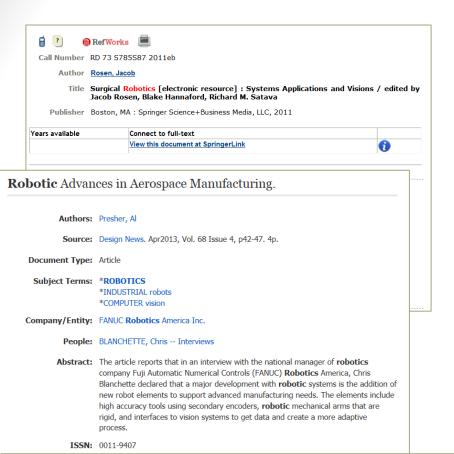
- VPN
 http://library.concordia.ca/research/databases/offcampus.php?guid=vpn
- Ask A Librarian

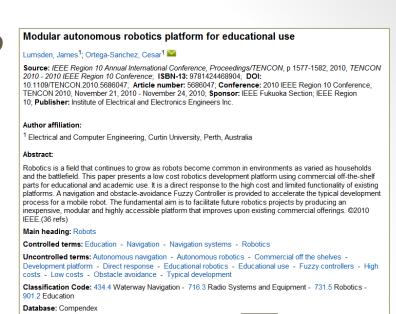


RefWorks

http://library.concordia.ca/help/howto/refworks.php

What is RefWorks?





References

Gregorio, P., Ahmadi, M., & Buehler, M. (1997). Design, control, and energetics of an electrically actuated legged robot. Systems, Man, and Cybernetics, Part B: Cybernetics, IEEE Transactions on, 27(4), 626-634.

Lumsden, J., & Ortega-Sanchez, C. (2010). Modular autonomous robotics platform for educational use. 2010 IEEE Region 10 Conference (TENCON 2010), 1577-82. doi: 10.1109/TENCON.2010.5686047

Presher, A. (2013). Robotic advances in aerospace manufacturing. *Design News*, 68(4), 42-47.

Rosen, J., Hannaford, B., Satava, R. M., & SpringerLink. (2011). Surgical robotics. Boston, MA: Springer Science+Business Media, LLC.

Google legged robot

Scholar

Case law

Articles Design, control, and energetics of an electrically actuated legged robot

P Gregorio, M Ahmadi, M Buehler - Systems, Man, and ..., 1997 - ieeexplore.ieee.org
Abstract To study the design, control and energetics of autonomous dynamically stable
legged machines we have built a planar one-legged robot, the ARL Monopod. Its top
running speed of 4.3 km/h (1.2 m/s) makes it the fastest electrically actuated legged robot ...

Any time Cited by 156 Related articles All 10 versions Cite

About 40.900 results (0.07 sec)

Accessing RefWorks



You are here: <u>library home</u> ▶ <u>help & instruction</u> ▶ <u>library "how to" guides</u> ▶ <u>refworks</u>



Hours A-Z Index



On this page

What is RefWorks? What is RefMobile?

Help

Write-N-Cite

Transferring to (or from) other software

What happens when I graduate?

What is the Group Code?

See also

Export/Import Instructions for Databases and CLUES

- · Login to RefWorks
- New to RefWorks? Click on "Sign up for an Individual Account" from the main login page

WHAT IS REFWORKS?

RefWorks is a Web-based tool that allows you to:

- manage and organize the bibliographic references you find in library catalogues, databases, and on the web
- prepare a bibliography or reference list automatically
- insert and automatically format in-text citations and a bibliography into a paper using Microsoft Word

WHAT IS REFMOBILE?

RefMobile (http://refworks.scholarsportal.info/mobile) gives you access to your references in RefWorks from your smart phone, mobile phone or PDA. To access RefMobile, you will require:

- Your 'Log-in Name'
- Vour Decemend

Getting Help

- Research Guides in Engineering & Computer Science
- Ask a librarian

http://library.concordia.ca/help/questions/

- In person at the Reference Desk
- Online/chat reference/Email reference
- Contact your subject librarian

Good Luck With Your Research!!!