



SEARCHING FOR SCHOLARLY INFORMATION: WHERE & HOW

LIBRARY SESSION FOR ENCS 282

Chloe Lei

Teaching & Research Librarian, Engineering & Computer Science

chloe.lei@concordia.ca

AGENDA

1. Where to search?
2. What are the major types of information sources?
3. What are the major library search tools?
4. How to cite sources properly in IEEE style?



**WHAT SEARCH TOOL DO
YOU USE TO FIND
ACADEMIC INFORMATION?**

SHARE YOUR ANSWER IN THE CHAT BOX

WHAT IS THE DIFFERENCE?

GOOGLE SCHOLAR



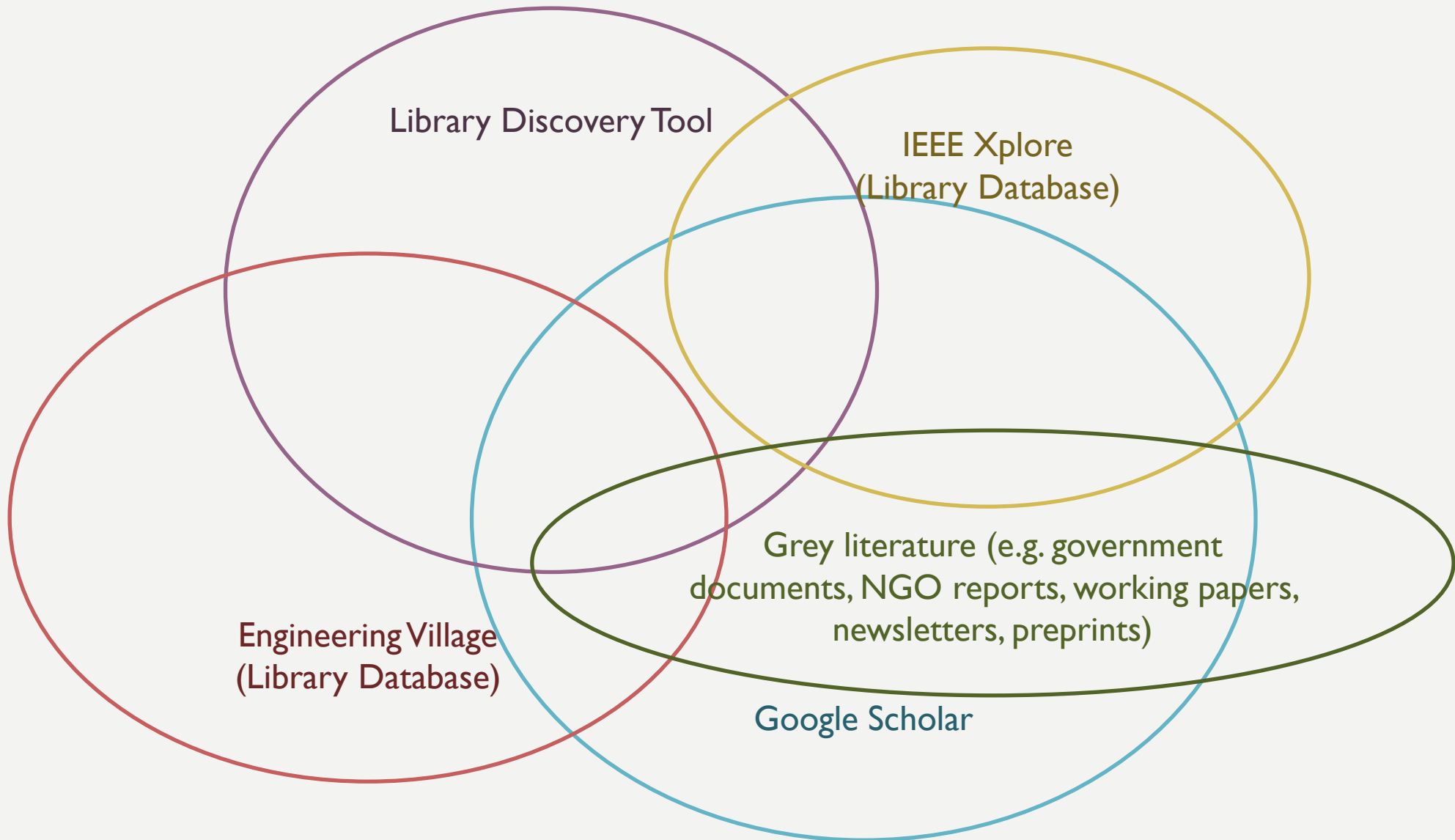
Volume | Quantity | Quick

LIBRARY DATABASES



Depth | Quality | Thorough

WHERE SHOULD YOU SEARCH?





EVALUATE INFORMATION

**EQUALLY IMPORTANT IN ACADEMIA AND
PROFESSIONAL PRACTICE**

KEY CRITERIA TO EVALUATE QUALITY


Relevance

Authority

Date

Appearance

Reason



MAJOR TYPES OF INFORMATION SOURCES

A DRAG AND DROP ACTIVITY

**CITE A WIDE RANGE OF
SOURCES FOR THEIR
DIFFERENCES IN PURPOSE,
SCOPE, AND PERSPECTIVES**

MAKE USE OF SCHOLARLY SOURCES GENEROUSLY

REFERENCES

1. Griffin, M.J., 1990. Handbook of Human Vibration, Academic Press Limited, London.
2. Seidel, H., 2005. On the relationship between whole-body vibration exposure and spinal health risk. *Industrial Health*, 43, 361-377.
3. Seidel, H., Blüthner R., Hinz B., Schust, M., 1998. On the health risk of the lumbar spine due to whole-body vibration — theoretical approach, experimental data and evaluation of whole-body vibration, *Journal of Sound and Vibration* 215 (4), 723-741.
4. Bovenzi, M., Hulshof, C. T. J., 1998. An updated review of epidemiologic studies on the relationship between exposure to whole-body vibration and low back pain. *Journal of Sound and Vibration* 215 (4), 595-612.
5. Hulshof, C., Van Zanten, B.V., 1987. Whole-body vibration and low back pain. A review of epidemiologic studies. *International Archives of Occupational and Environmental Health* 59, 205-220.
6. Magnusson, M. L., Pope, M. H., Hulshof, C., and Bovenzi, M., 1998. Development of a protocol for epidemiological studies of whole-body vibration and musculoskeletal disorders of the low back. *Journal of Sound and Vibration* 215 (4), 643-651.
7. Seidel, H., Heide, R., 1986. Long term effects of whole-body vibration — a critical survey of literature. *International Archives of Occupational and Environmental Health* 58, 1-26.
8. Boileau, P.-É., 1995. A study of secondary suspension and human driver response to whole-body vehicular vibration and shock. Ph.D., Thesis, Concordia University, Montreal, Canada.
9. Wu, X., 1998. Study of driver-seat interactions and enhancement of vehicular ride vibration environment. Ph.D. Thesis, Concordia University, Montreal, Canada.
10. Boileau, P.-É. Wu, X. and Rakheja, S., 1998. Definition of a range of idealized values to characterize seated body biodynamic response under vertical vibration. *J. Sound and Vibration*, 215 (4), 841-862.

Book

Literature review article

Thesis / Dissertation

Wang, W. (2007). *A study of force-motion and vibration transmission properties of seated body under vertical vibration and effects of sitting posture* (Publication No. NR30145). [Doctoral dissertation, Concordia University]. ProQuest Dissertations & Theses Global.

12. International Organization for Standardization, ISO-5982: 2001. Mechanical vibration and shock range of idealized values to characterize seated-body biodynamic response under vertical vibration.
13. Rakheja et al., 1997. Estimation of vibration transmission of the seat-human system through measurements of the seat-load system. Research Report, CONCAVE Research Center, Concordia University.
14. Bendat, J.S., Piersol A.G., 1992. Random data-analysis and measurement procedures. New York, John Wiley & Sons.
15. Lee, R.A., Pradko, F., 1968. Analytical analysis of human vibration, SAE paper 680091.
16. International Organization for Standardization ISO 2631-1, 1997. Mechanical vibration and shock – evaluation of human exposure to whole – body vibration. Part 1, General Requirements.
17. Lewis, C.H., Griffin, M.J., 1998. A comparison of evaluations and assessments obtained using alternative standards for predicting the hazards of whole-body vibration and repeated shock. Journal of Sound and Vibration, 215 (4), 915-926.
18. Mansfield, N.J., Holmlund, P., Lundström, R., 2000. Comparison of subjective responses to vibration and shock with standard analysis methods and absorbed power. Journal of Sound and Vibration 230 (3), 477-491.
19. Boileau, P.E. Rakheja, S. Yang, X. and Stiharu, I., 1997. Comparison of biodynamic response characteristics of various human body models as applied to seated vehicle drivers. Noise & Vibration Worldwide, October, 7-14.
20. Seidel, H., Griffin, M.J., 2001. Modeling the responses of the spinal system to whole-body vibration and repeated shock. Clinical Biomechanics 16 (Supplement 1), S3–S7.
21. Griffin, M.J., 2001. The validation of biodynamic models. Clinical Biomechanics 16 (Supplement 1), S81–S92.
22. Coermann, R.R., 1962. The Mechanical Impedance of the Human Body in Sitting and Standing Position at low frequencies. Human Factors, 227-253.
23. Miwa, T., 1975. Mechanical impedance of human body in various postures. Industrial Health, 13, 1-22.

Standard / Technical document

**Journal articles
(often peer-reviewed)**

Wang, W. (2007). *A study of force-motion and vibration transmission properties of seated body under vertical vibration and effects of sitting posture* (Publication No. NR30145). [Doctoral dissertation, Concordia University]. ProQuest Dissertations & Theses Global.



LIBRARY DISCOVERY TOOL

THE MAIN LIBRARY SEARCH TOOL

Sofia Discovery tool

The Sofia Discovery tool replaces the Discovery Search and the CLUES Library Catalogue.

Books, ebooks, articles, and more

Search

User guide
Searching Sofia 

Advanced search

Student and faculty support
during COVID-19

Article/Chapter Scan & Deliver

Contactless Book Pickup

Library Study Space Booking

Course Reserves

All Library services and resources
during campus closure →



DATABASES BY
SUBJECT



E-JOURNALS



COURSE
RESERVES &
TEXTBOOKS



CITATION GUIDES
& ZOTERO



LOANS &
RETURNS



SUGGEST A
PURCHASE

LIBRARY DISCOVERY TOOL

- Front and centre on the library homepage
- A good starting point for a general search across library resources
- Answer questions such as:
 - Does the library have this book?
 - Does the library have this journal article?
 - Does the library have some background/overview information on a topic?

Sofia **Concordia** blockchain ⌕ Hello Sign In

Advanced Search Resources ▾

Sort: **Best Match** ▾ ★ Saved Items (0)

^ Group This Search
☒ Group Related Editions

^ Library
☐ Libraries Worldwide
☐ Bibliothèques universitaires du Québec
☒ Concordia University Library
☐ Webster Library
☐ Vanier Library
☐ Special Collections

^ Format
[All](#)
[Article \(13.9K\)](#)
[Book \(1K\)](#)


^ ☐ Article, Chapter (17K)
☐ Article (13.9K)
☐ Downloadable Article (2.1K)
☐ Chapter (1.3K)

^ ☐ Book (1K)
☐ eBook (975)
☐ Print Book (31)
☐ Thesis, Dissertation (3)

^ ☐ Video (46)
☐ eVideo (46)

^ ☐ Journal, Magazine (9)
☐ eJournal, eMagazine (9)

1



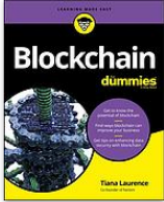
Blockchain
 Authors: [Matthieu Quiniou](#) (Author), [Safari, an O'Reilly Media Company](#).
 eBook 2019, 1st edition.
 Wiley-ISTE, 2019.

Summary: The dominance of trusted intermediaries could be weakened by **blockchain**, a distributed ledger technology, one of the functions of which is to constitute timestamped proofs by replacing inter-individual trust with algorithmic trust. **Blockchain** self-executing smart contracts allow us to rethink the practice in the domain of e-commerce, interbank communication,
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Worldwide Editions and Formats [View All \(2\)](#)

2



Blockchain for dummies
 Authors: [Tiana Laurence](#) (Author)
 eBook 2017
 [Place of publication not identified] : Wiley, [2017]

Summary: Find out what **Blockchain** is, how it works, and what it can do for you **Blockchain** is the technology behind Bitcoin, the revolutionary 'virtual currency' that's changing the way people do business. While Bitcoin has enjoyed some well-deserved hype, **Blockchain** may be Bitcoin's most vital legacy. **Blockchain** For Dummies is the ideal starting place for business pros looking to gain
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LIBRARY DISCOVERY TOOL

- A search for a broad keyword such as *blockchain*
- Refine options include:
 - Format types (e.g. ebooks)
 - Publication years
- Shows results with Concordia full text access by default
 - Easily expand to other university libraries in Québec or Worldwide

LIBRARY DATABASES

OVER 400 OF THEM ORGANIZED BY DISCIPLINE

Engineering Village™

IEEE
Xplore®
Digital Library

 **Clarivate**
Web of Science™

 **SCIFINDER**ⁿ®
A CAS SOLUTION

ACM  **DIGITAL**
LIBRARY

Scopus®

LIBRARY DATABASES

- Content is usually more in-depth and specialized
- More options to search, expand, or refine
- Answer questions such as:
 - Where can I find journal articles on a specific aspect of a topic
 - How can I combine different elements/keywords in a search?

MY LIBRARY ACCOUNT

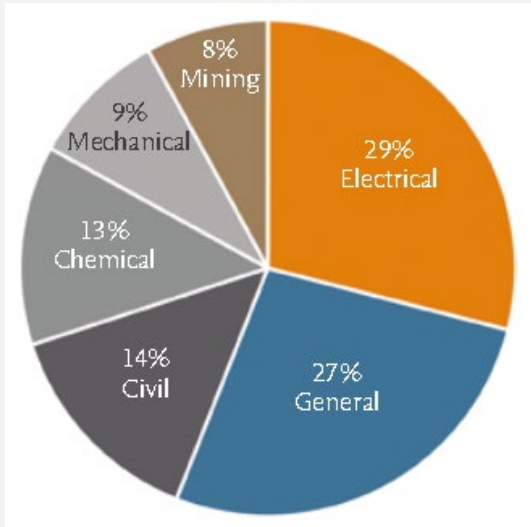
Remember to log into *My Library Account* to access all library e-resources. This is the same as your Concordia netname and password.



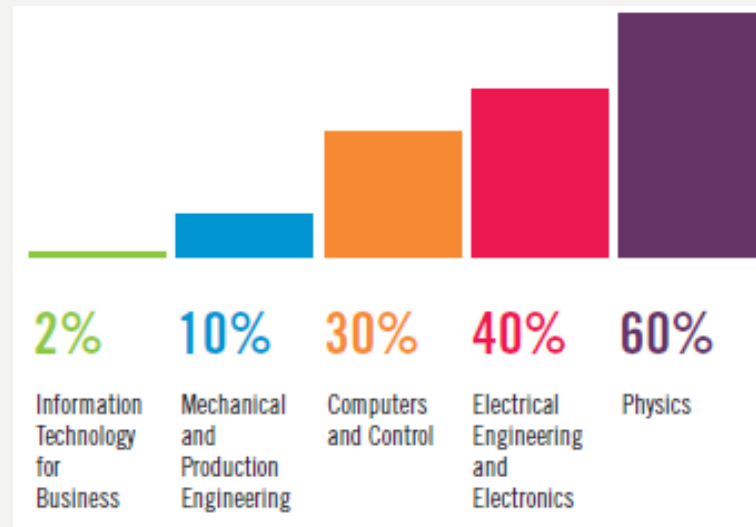


ENGINEERING VILLAGE

A CLOSER LOOK AT AN ENGINEERING DATABASE

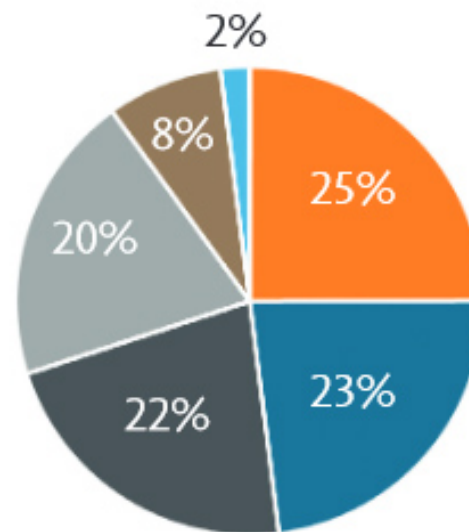


Compendex



Inspec

- Human Geography – 25%
- Environmental Sciences – 23%
- Physical Geography – 22%
- Geology – 20%
- Oceanography – 8%
- Geomechanics – 2%



GEOBASE

WHAT CONTENT IS INCLUDED?

With a coverage of 1884 to the present, the three indexes **Compendex**, **Inspec**, and **GEOBASE** provide content in general engineering as well as more specialized engineering disciplines.

Document type



- ☐ Journal article (5,381,622)
- ☐ Conference article (1,478,393)
- ☐ Dissertation (46,448)
- ☐ Standard (24,243)
- ☐ Book chapter (20,322)

Bar chart

View more >

Database



- ☒ Compendex (3,707,454)
- ☐ Inspec (3,020,546)
- ☐ GEOBASE (405,914)

☒ Published 1884 to 2021

WHAT CONTENT IS INCLUDED?

“Publications must consist of peer-reviewed engineering content and have a publicly available description of the peer review process.

Exceptions would be trade journals and some conference proceedings.”

-EngineeringVillage Compendex Content Policy and Selection (A checklist of 13 criteria)



SEARCHING EFFECTIVELY

IN ACADEMIC DATABASES

SEARCHING EFFECTIVELY



- Break down a topic into key concepts
- Brainstorm synonyms
- Explore, revise, and refine
- Trace references



- Avoid long phrases or sentences
- Avoid noise words
- Is it too broad or too specific?
- Don't give up after the first try

Topic

How does electronic waste recycling affect citizens living in Guiyu, China?



Key Concepts → Synonyms

Electronic waste
Recycling
Guiyu

E-waste
Reuse, management
Guiyu, Guangdong, China

FROM A TOPIC TO KEY CONCEPTS

Think through your topic before searching.

Breaking down a topic helps develop effective keywords.

Key Concepts

Electronic waste
Recycling
Guiyu

Synonyms

E-waste
Reuse, management
Guiyu, Guangdong, China

COMBINE THE KEY CONCEPTS

Search can be built up from a simple one to a complex one, allowing the combination of many keywords or concepts.

Sample Topic:

How does electronic waste recycling affect citizens living in Guiyu, China?

The screenshot shows the Engineering Village search interface. The search query is built up in three steps:

- Quick search: All fields for "electronic waste" OR e-waste
- AND All fields for recycle OR reuse OR manage
- AND All fields for Guiyu OR Guangdong OR China

Suggested terms: Recycling, Wastes, Organic Pollutants, Lithium-Ion Batteries, Printed Circuit Boards

Turn on AutoSuggest | + Add search field | Reset form

Databases Date Language Document type Sort by Browse indexes Autostemming Discipline Treatment

1,620 records found in Compendex for 1884-2021: (((("electronic waste" OR e-waste) WN ALL) AND ((recycle OR reuse OR manage) WN ALL)) AND ((Guiyu OR Guangdong OR China) WN ALL))

Create alert Save search Share search RSS feed Sort by: Rel

MORE EXAMPLES

Topic	Keywords
How does electronic waste recycling affect citizens living in Guiyu, China?	<ul style="list-style-type: none">• Electronic waste OR e-waste• Recycling OR reuse OR management• Guiyu OR Guangdong Or China
How can nanotechnology make solar energy technology more efficient?	<ul style="list-style-type: none">• Nanotechnology OR nanofluid• Solar energy OR solar power
Privacy issues in the use of vaccination QR code during Covid-19	<ul style="list-style-type: none">• Privacy OR security Or protection• Vaccination OR vaccine OR healthcare• QR code OR mobile OR apps• Covid-19 OR coronavirus OR pandemic


Thermal effects and anomalies in the low-temperature plasticity of crystals
Malygin, G.A. (A.F. Ioffe Physicotech. Inst., St. Petersburg, Russia) Source: *Physics of the Solid State*,
Database: Inspec
Document type: Journal article (JA)
Detailed Show preview ▾ Cited by in Scopus (2) **Full text ↗** **Find it @ Concordia**


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Full text may be readily available. If not, the “Find it @ Concordia” button can help check for full text availability in the library.



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 Contactless Book Pickup and Article/Chapter Scan & Deliver are available, see [Library services and resources during COVID-19](#).



INFO


VIEW FULL
TEXT


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CITE

Distribution pattern of heavy metals in soils with respect to typical land uses in electron


 Article, Chapter


Authors: Wen-Cheng Wu

Publication: Zhongguo Huanjing Kexue/China Environmental Science, Volume:38, Issue:7, Page(s):2632-2638


Published: 2018

ISSN: 1000-6923

 Access full text via journal or collection links below. We were unable to find direct full text links for this item.
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INTERLIBRARY LOAN

- If Concordia Library doesn't have it, use Interlibrary Loan
- Takes a few days or longer to process depending on the item

Go to **www.menti.com** and
use the code shown on the
screen.

**LET'S TRY ONE
TOGETHER!**



DOCUMENTING SOURCES

CITING IT RIGHT IN IEEE CITATION STYLE

SOME ADVICE

- Keep track from the beginning
- Doing it right conveys professionalism and quality
- Make use of a tool such as Zotero to help organize and save time
- Always double check citations and references that were automatically generated
- Consult a librarian if unsure

In this book about decision trees, the authors say all kinds of great things [1]. I cited them and now I would like to cite something I read in this journal [2].

References

- [1] A. Pyrson and N. O'bodie, *The prescient programmer and decision trees*. Gatineau, Canada: Big Name Publishers, 2001.
- [2] The second reference appears here because it was the second item cited in the text above.

IEEE CITATION STYLE

- Based on a numbering system
- In-text citations are numbers in square brackets
- Full citations are listed on the reference list at the end
- There are official abbreviations to be followed (e.g. journal title)

CHOOSING THE RIGHT CITATION TOOL

Online citation generator

- ✓ Quick and on the fly
- ✓ For a small number of references
- ✓ No account is required
- × No storage
- × No saving while browsing
- × No integration with word processors
- × Not many citation styles to choose



zotero**bib**

Built-in features in search platforms
(e.g. Sofia, Google Scholar)

CHOOSING THE RIGHT CITATION TOOL

Reference manager

- ✓ Web-based and also a downloaded software
- ✓ For small and big research projects
- ✓ A storage to save and organize all references
- ✓ A browser extension for saving while browsing
- ✓ PDF annotating and notetaking
- ✓ Integration with word processors (e.g. MS Word, Google Doc)
- ✓ Collaboration in group projects

- ! Basic set-up is required
- ! An account (freemium model) is required

zotero



EndNote™



WHAT REFERENCE MANAGER DO YOU USE?

SHARE YOUR ANSWER IN THE CHAT BOX



ZOTERO

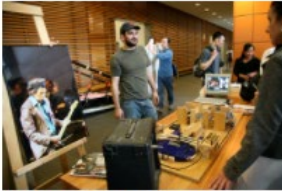
- Manage and organize sources in one place
- Save references/sources from the web browser
- Generate in-text citations and prepare the reference list automatically via a Word plugin

Help & how-to

Subject & course guides



Business



Engineering & Computer Science



Fine Arts



Humanities



Sciences



Social Sciences



Interdisciplinary

HELP & HOW-TO GUIDES

Subject guides are available for all schools, including one for Engineering and Computer Science.

General guides cover various topics from peer review articles to annotated bibliography.

General guides



Finding

- › Articles (What's peer review?)
- › Books
- › Open Access journals
- › Primary sources
- › [More...](#)



Evaluating

- › Books
- › Articles
- › Media
- › Websites
- › [More...](#)



Writing

- › Annotated bibliographies
- › Literature reviews
- › Book reports
- › Research papers



Citing

- › [APA style](#)
- › [MLA style](#)
- › Chicago style
- › Zotero (formerly RefWorks)
- › [More...](#)



Using

- › Discovery Search
- › Find it! @ Concordia
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ASK QUESTIONS - GET HELP



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Chloe Lei
Teaching & Research Librarian,
Engineering & Computer Science

✉ chloe.lei@concordia.ca

☎ (514) 848-2424 ext. 7909

🕒 Feel free to contact me for an appointment in-person or online.

I can help you with library resources and services, including but are not limited to:

- Locate specific items (e.g. books, articles)
- Navigate resources related to engineering and computer science
- Literature searching
- Citations and references
- Recommend new resources

ASK A LIBRARIAN

Contact the library in-person, by email, chat, or phone.

Contact your subject librarian (that's me!)



QUESTIONS?