

# Mastering UBC Science and Engineering Resources

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# Agenda

For the next 60 min., we will learn about:

- Disciplines' subject guides
- Understand some databases in Science and Engineering
  - Compendex
  - ProQuest Dissertations
  - More...
- Learn to tweak Google and Google Scholar to bring you good results
- Excited? Let's start then 😊

# Research Resources for your discipline

- We recommend to start with the **subject guide** for your discipline
- Subject guides are lists of suggested databases, books, and additional resources available at UBC on certain subjects
- Access subject guides via library homepage >> subject guides (under subject resources column – 3<sup>rd</sup> from the left)
- Let's take a look on Mining engineering, shall we?

## Article Indexes:

- ◆ [SciFinder Scholar](#)
- ◆ [Metadex Materials Science Collection](#)
- ◆ [GeoRef](#)
- ◆ [Geobase](#)
- ◆ [Web of Science](#)
- ◆ [British Columbia MinFile Mineral Inventory](#)
- ◆ [ProQuest Dissertations and Theses](#)
- ◆ [E-Journals at UBC](#)

## Associations/Societies:

- ◆ [Association of Professional Engineers and Geoscientists of BC](#)
- ◆ [Association for Mineral Exploration British Columbia](#)
- ◆ [Geological Association of Canada](#)
- ◆ [International Council on Mining & Metals](#)
- ◆ [Mineralogical Association of Canada](#)
- ◆ [Mining Association of British Columbia](#)
- ◆ [Mining Association of Canada](#)
- ◆ [Standards Council of Canada](#)

# Research Resources for your discipline

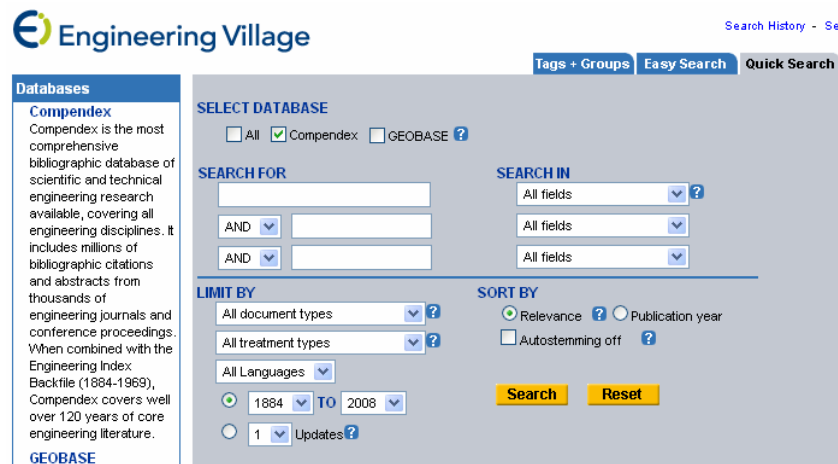
- Here we list the major databases for this science/engineering area where you can find relevant information for your topics
- Moreover we list major works, e.g. dictionaries, ebook collections, encyclopaedias, etc for the particular subject area
- This is a great place to **start your research**
- And find your liaison librarian (bottom of the page)

# Compendex – what is it?

- Let's start with understanding **Compendex**
- Compendex is a primary database of core literature of the engineering fields
- Coverage is from 1884 till today
- Citations are drawn from approximately 5,000 journals and key conference proceedings
- It is a **#1** resource for research in most engineering disciplines
- Is updated weekly

# Compendex – getting there

- To get to Compendex:
  - UBC Library homepage >> Databases >> Compendex
  - Don't forget to use **VPN** or **proxy connection** -  
<http://www.library.ubc.ca/home/proxyinfo/>



Engineering Village Search History - Se

Tags + Groups Easy Search Quick Search

**Databases**

**Compendex**  
Compendex is the most comprehensive bibliographic database of scientific and technical engineering research available, covering all engineering disciplines. It includes millions of bibliographic citations and abstracts from thousands of engineering journals and conference proceedings. When combined with the Engineering Index Backfile (1884-1969), Compendex covers well over 120 years of core engineering literature.

**GEOBASE**

**SELECT DATABASE**  
 All  Compendex  GEOBASE ?

**SEARCH FOR**  
[ ] [ ]  
AND [ ] [ ]  
AND [ ] [ ]

**SEARCH IN**  
All fields [ ? ]  
All fields [ ]  
All fields [ ]

**LIMIT BY**  
All document types [ ? ]  
All treatment types [ ? ]  
All Languages [ ]  
1884 [ ] TO 2008 [ ]  
 1 [ ] Updates [ ? ]

**SORT BY**  
 Relevance [ ? ]  Publication year  
 Autostemming off [ ? ]

**Search** **Reset**

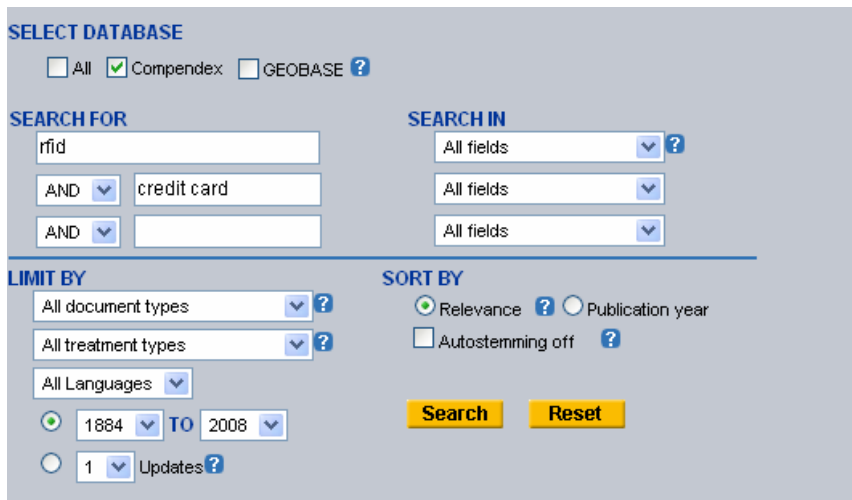
# Compendex – quick search

- The default search option is “**quick search**”
- You can search by (drop down menus):
  - Keywords anywhere
  - Keywords in title
  - Authors
  - Much more...

SEARCH FOR	SEARCH IN
<input type="text"/>	All fields <input type="button" value="v"/> ?
AND <input type="button" value="v"/> <input type="text"/>	All fields <input type="button" value="v"/>
AND <input type="button" value="v"/> <input type="text"/>	All fields <input type="button" value="v"/>

# Compendex – quick search

- Let's try an example
- Anything that **you** would like to research?
- We could also try my example:
  - **RFID** use for **credit cards**



**SELECT DATABASE**  
 All  Compendex  GEOBASE ?

**SEARCH FOR**  
rfid  
AND   
AND

**SEARCH IN**  
All fields ?  
All fields  
All fields

---

**LIMIT BY**  
All document types ?  
All treatment types ?  
All Languages  
 1884 TO 2008  
 1 Updates ?

**SORT BY**  
 Relevance ?  Publication year  
 Autostemming off ?

**Search** **Reset**



# Compendex – quick search

- I separate my keywords by **blocks** of information: credit card; RFID
- I searched the basic default fields (could make my searches more precise by searching the titles)
- Got a dozen results
- No limits applied so far
- I see that the better term for my searches could be **smart card...**

# Compendex – quick search

- Interesting...let's re-run the searches with **RFID** and **smart card**
- Many more results...Good!!
- Lets explore the results screen now...
- Click on the abstract to view it
- Use “refine results” on the right to narrow your results to:
  - Authors
  - Topics
  - Type of article
  - More...



**Refine Results** [? Help](#)

Include  Exclude

**Author**  

- Song, Won Jay (4)
- Choi, Mun Kee (3)
- Szu, Harold (2)
- Chlamtac, Imrich (2)
- Inoue, Sozo (2)
- Paar, Christof (2)
- Nohara, Yasunobu (2)
- Son, Sang H. (2)
- Petrioli, Chiara (2)
- Yasuura, Hiroto (2)

[more...](#)

**Author affiliation**  

- Department Of Computer Science, University Of Virginia (3)
- Univ Of Texas At Dallas (2)
- Kyushu University (2)
- Pira International (1)
- Philips Semiconductors Styria (1)
- Pgp Corporation (1)
- National University Of Singapore (1)
- Motorola Advanced Technology Center (1)
- Laboratory Of Telecommunication, Dept. Of Electronics Engineering, Technical

# Compendex – quick search

- Use as many limiters as you want to narrow your searches if you have too many results...
- Click on the records you like and those will be saved under “Selected Records” (upper part of your screen) for a later use...
- You can also re-sort your results by:
  - Date
  - Author
  - Source

# Compendex – quick search

- You can limit your searches to specific years, document types and languages from the basic search screen



The screenshot shows a search interface with two main sections: "LIMIT BY" and "SORT BY".

**LIMIT BY**

- Document types: "All document types" (dropdown menu)
- Treatment types: "All treatment types" (dropdown menu)
- Languages: "All Languages" (dropdown menu)
- Year range: "1884" (dropdown) TO "2008" (dropdown)

**SORT BY**

- Relevance:  (selected)
- Publication year:
- Autostemming off:

Buttons: "Search" and "Reset"

- You can also use “” for phrases, e.g. “**smart card**” and truncations, e.g. “**smart card\***” if you want to receive more inclusive or exclusive results

# Compendex – author search

- We recommend to use **Author browsing** when search for authors, accessible from the start screen
- It is a more comprehensive way to locate **all** articles written by a specific person, since sometimes middle names, initials, etc are missed or misspelled

**BARSKY, E.** (Compendex)  
 **BARSKY, ELENA** (Compendex)  
 **BARSKY, EUGENE** (Compendex)



# Compendex – full text access

- It is easy to check every Compendex article as to whether UBC Library has **full text** of it...
- Some articles are **embedded** in full text into the database
- Other are accessible via the **UBC eLink** (seen after opening the article's abstract or detailed view)
- Note: UBC eLink does not work for conference papers!

**Database:** Compendex

**Full-text and Local Holdings Links**

[UBC eLink](#)

**Full-text**

# Compendex – full text access

- We will always be happy to get you the articles that are not in UBC – use “**Borrow from other libraries (ILL)**” link from the library homepage
- Just follow the steps on that page and we will get you the article(s) or book(s) that you need!

## How To

Connect from home

Borrow from other branches (DocDel)

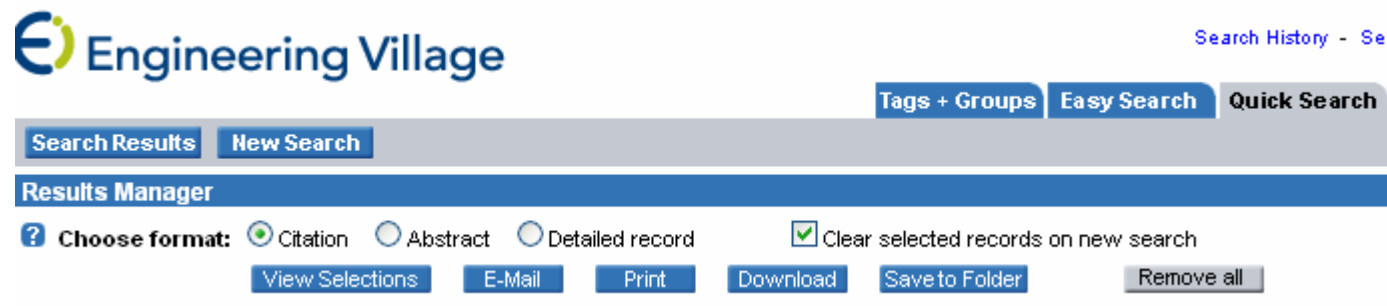
Borrow from other libraries (ILL)

Access the ASRS (Automated Storage)

more ▾

# Compendex – manage citations

- After selecting the articles you want to proceed with, you can email, print, save or upload those citations to RefWorks



The screenshot shows the Engineering Village search results interface. At the top left is the Engineering Village logo. On the top right, there is a link for "Search History - Se". Below the logo, there are three tabs: "Tags + Groups", "Easy Search", and "Quick Search". A navigation bar contains "Search Results" and "New Search" buttons. Below this is a "Results Manager" section. It includes a "Choose format:" label with three radio buttons: "Citation" (selected), "Abstract", and "Detailed record". To the right of these is a checked checkbox for "Clear selected records on new search". At the bottom of the Results Manager section, there are several buttons: "View Selections", "E-Mail", "Print", "Download", "Save to Folder", and "Remove all".



## Compendex – self-practice:

- Five minutes exercise on Compendex – **try your own example** and see how it works for you
- **Raise your hand** if you need to talk to the instructor

## ProQuest Dissertations and Theses - Intro


- Excellent source for theses and dissertations!
- Contains over 2 million records
- Doctoral dissertations: 1861-present
- Masters theses: 1988-present (selective coverage, since many institutions do not submit masters theses for inclusion)
- Online abstracts for dissertations available since July 1980
- Full text since 1997
- Covers more than 90% of North American doctoral dissertations plus growing international coverage

## ProQuest Dissertations and Theses - Intro

- Available online via the UBC Library
- Homepage >> Databases >> **ProQuest Dissertations and Theses**
- Or - <http://toby.library.ubc.ca/resources/infopage.cfm?id=32>
- Remember to use **VPN** to get access to this database and its full text

## ProQuest Dissertations and Theses – simple search

- The advanced search screen (default) allows to search for:
  - Keyword
  - Author
  - Degree
  - School
  - Much more...

Basic **Advanced** Browse  My Research  
0 marked items

Databases selected: Dissertations & Theses: Full Text

**Advanced Search** Tools: [Search Tips](#)

<input type="text"/>	Citation and abstract	▼
AND ▼ <input type="text"/>	Citation and abstract	▼
AND ▼ <input type="text"/>	Citation and abstract	▼

[Add a row](#) | Remove a row Search Clear

## ProQuest Dissertations and Theses – simple search

- Lets try our simple example of **RFID** use
- I want to see whether anybody has written a thesis about the technology...
- Let's type **RFID** or **radio frequency identification**

### Advanced Search

Tools: [Search Tips](#)

rfid	Citation and abstract	▼
OR ▼	radio frequency identification	Citation and abstract ▼
AND ▼		Citation and abstract ▼

[Add a row](#) | [Remove a row](#)


**Search** **Clear**


## ProQuest Dissertations and Theses – simple search

- Got more than 180 dissertations, including some 2008 ones
- I can refine my searches now, limiting by:
  - Subject
  - School
  - Masters/Doctoral, etc...

186 documents found for: *(rfid) OR (radio frequency identification)* » [Refine Search](#) | [Set Up Alert](#) ✉

### Dissertations

Mark all  0 marked items: [Email](#) / [Cite](#) / [Export](#)

 [Show only full text](#)

- 1. [New directions in reliability, security and privacy in radio frequency identification systems](#)  
by *Bolotnyy, Leonid*, Ph.D., **University of Virginia**, 2008, 214 pages; AAT 3289601  
[Abstract](#) | [24 Page Preview](#) | [Full Text - PDF \(11 MB\)](#) | [Order a copy](#)
- 2. [Acoustical signature analysis for cargo and freight security monitoring systems](#)  
by *Chinnappareddy, Raghohama*, M.S.E.E., **University of Arkansas**, 2007, 83 pages; AAT 1447924  
[Abstract](#) | [24 Page Preview](#) | [Full Text - PDF \(5 MB\)](#) | [Order a copy](#)

## ProQuest Dissertations and Theses – simple search

- For each thesis, you can view the:
  - Abstract (most dissertation starting with **1980**)
  - 24 page preview - thumbnail scanned image of the first 24 pages of a dissertation
  - Full text – a PDF copy of the thesis full text (if UBC has access to it)
  
- 1. [New directions in reliability, security and privacy in radio frequency identification systems](#)  
by *Bolotnyy, Leonid*, Ph.D., **University of Virginia**, 2008, 214 pages; AAT 3289601
  - 📄 [Abstract](#) | 📄 [24 Page Preview](#) | 📄 [Full Text - PDF \(11 MB\)](#) | 📄 [Order a copy](#)

## ProQuest Dissertations and Theses – your results

- The database highlights our keywords we used for searching inside the abstracts text – a very handy feature

### New directions in reliability, security and privacy in **radio frequency identification** systems

by [Bolotnyy, Leonid](#), Ph.D., **University of Virginia**, 2008, 214 pages; AAT 3289601

#### **Abstract (Summary)**

**Radio Frequency Identification (RFID)** is a technology that uses **radio** signals for object **identification**. Since the invention of **RFID** in the mid 1930's, the technology has been used to identify aircraft, collect bridge-toll payments, deter theft, and track livestock, among many other applications. Interest in **RFID** has spiked in recent years with the formation of the Auto-ID Center and visions of item-level tagging. However, reliable object detection, individual privacy concerns, and **RFID** equipment cost impede widespread deployment of the technology. This thesis addresses these issues.



## ProQuest Dissertations and Theses – your results

- On the bottom of the abstracts, view the keywords used to catalogue this thesis
- Those are clickable and will bring you more dissertations focusing on the same topic...

### Indexing (document details)

<b>Advisor:</b>	<a href="#">Robins, Gabriel</a>
<b>School:</b>	University of Virginia
<b>School Location:</b>	United States -- Virginia
<b>Keyword(s):</b>	<a href="#">RFID</a> , <a href="#">Security</a> , <a href="#">Privacy</a> , <a href="#">Radio frequency identification</a>
<b>Source:</b>	DAI-B 68/11, May 2008
<b>Source type:</b>	Dissertation
<b>Subjects:</b>	<a href="#">Computer science</a>
<b>Publication Number:</b>	AAT 3289601
<b>ISBN:</b>	9780549322894
<b>Document URL:</b>	<a href="http://proquest.umi.com/pqdweb?did=1432807571&amp;sid=3&amp;Fmt=2&amp;clientId=6993&amp;RQT=309&amp;VName=PQD">http://proquest.umi.com/pqdweb?did=1432807571&amp;sid=3&amp;Fmt=2&amp;clientId=6993&amp;RQT=309&amp;VName=PQD</a>
<b>ProQuest document ID:</b>	1432807571

## ProQuest Dissertations and Theses – self-practice

- Any questions?
- **Try your own search** for the next five minutes...
- Raise your hand if you need to talk with the instructor 😊

## Google searches – some commands

- If you use Google for your academic searches – this is fine
- However, make your searches more precise with some Google commands
- For instance, **site:** command will allow you to search in specific web domains only
- **Intitle:** command will allow you to search your keywords in titles of documents only, therefore making your searches more precise...

## Google searches – some commands

- See for yourself:
- Here is a simple search for radio frequency identification or rfid
- We got more than 2M results, are those **good/bad**?
- Are you going to check all of them?

Web

Results 1 - 10 of about 2,210,000 for rfid OR

[Vancouver RFID Systems](#)

Sponsored Link

[www.nje.ca](http://www.nje.ca) RFID Systems Expert. Serving British Columbia.

Did you mean: [rf](#) OR [radio frequency identification](#)

[Radio-frequency identification](#) - Wikipedia, the free encyclopedia

**Radio-frequency identification (RFID)** is an automatic **identification** method, relying on storing and remotely retrieving data using devices called **RFID** tags ...

[en.wikipedia.org/wiki/RFID](http://en.wikipedia.org/wiki/RFID) - 193k - [Cached](#) - [Similar pages](#) - [Note this](#)

[RFID Journal - RFID \(Radio Frequency Identification\) Technology ...](#)

RFID Journal is your source for timely, objective news and information about **RFID (radio frequency identification)** and its many business applications - **RFID ...**

[www.rfidjournal.com/](http://www.rfidjournal.com/) - 45k - [Cached](#) - [Similar pages](#) - [Note this](#)

## Google searches – some commands

- See for yourself:
- An alternative way is to use search commands:
- **intitle:rfid OR intitle:"radio frequency identification" site:ieee.org**
- This is a precise search for keywords in titles and specific website only
- We get less than 2K results – and those are more reliable ones!!

Web Results 1 - 10 of about 1,840 from [ieee.org](#)

[Vancouver RFID Systems](#)

[www.nje.ca](#) RFID Systems Expert. Serving British Columbia.

[IEEE Spectrum: RFID inside](#)

The murky ethics of implanted chips. email Email Print Print Comments Comments ()  
Reprints Reprints Newsletters Newsletters. Del.icio.us Del.icio.us Digg ...  
[spectrum.ieee.org/mar07/4939](#) - [Similar pages](#) - [Note this](#)

[RFID: A Technical Overview and Its Application to the Enterprise](#)

May 1 June 2005 IT Pro. 27. 1520-9202/05/\$20.00 © 2005 IEEE. Published by the IEEE  
Computer Society. RFID: A Technical. Overview and. Its Application to ...  
[ieeexplore.ieee.org/iel5/6294/32043/01490473.pdf](#) - [Similar pages](#) - [Note this](#)

## Google Scholar – set up UBC eLink

- Get full text of journals that UBC subscribe to via Google Scholar:
  - Go to <http://scholar.google.com>
  - Click on **Scholar Preferences** (right-upper corner of your screen)
  - Under Library Links, type UBC
  - From now on you will get a UBC eLink for each article UBC Library purchases for you

[RFID security and privacy: a research survey - UBC eLink - UBC eLink - all 5 versions »](#)

[A Juels - Selected Areas in Communications, IEEE Journal on, 2006 - ieeexplore.ieee.org](#)

... Invited Paper Abstract—This paper surveys recent technical research on the problems of privacy and security for **radio frequency identification (RFID)**. ...

[Cited by 143](#) - [Related Articles](#) - [Web Search](#) - [Import into RefWorks](#)

## Google Scholar – set up UBC eLink

- For more information on Google and Google Scholar come to one of our tailored workshop:
  - **Mastering Google for Science and Engineering**
- Check the schedule for free library workshops @
  - <http://www.library.ubc.ca/home/instruct/>
  - Library Homepage >>> Instruction (in the blue toolbar on the top of your screen)

## Your Questions:

- If you feel you need more information on how to use your library, please contact one of our Science and Engineering Librarians:
  - **Aleteia Greenwood** – [aleteia.greenwood@ubc.ca](mailto:aleteia.greenwood@ubc.ca)
  - **Kevin Lindstrom** – [kevin.lindstrom@ubc.ca](mailto:kevin.lindstrom@ubc.ca)
  - **Eugene Barsky** – [eugene.barsky@ubc.ca](mailto:eugene.barsky@ubc.ca)
  
- Or visit our Science and Engineering library page - <http://www.library.ubc.ca/scieng/>