

CS 697: Library Resources and your Research

Rebecca Hutchinson

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Fall 2019



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Group exercises

- 15 min to work through questions
 - Tip for starting! Google: waterloo library computer science
- Share your findings with the class

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To help you find and access information/books/papers

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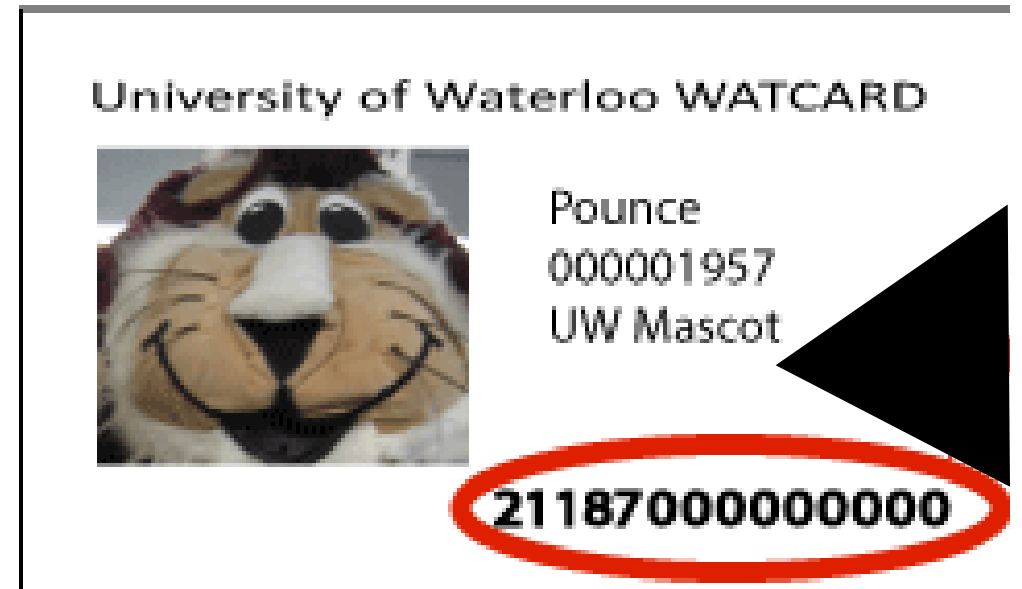
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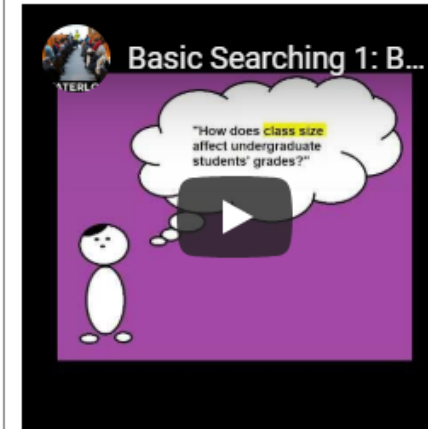
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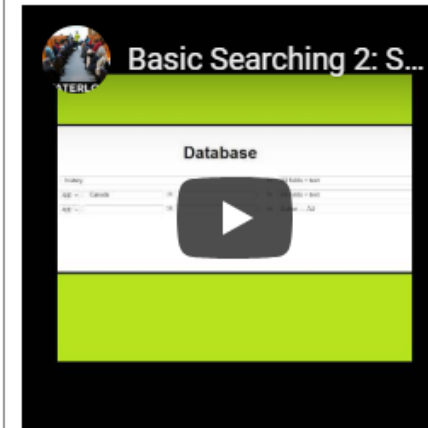
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Keywords: Business intelligence, Experiment-driven performance modeling, Query interactions, Report generation, Scheduling, Workload management

2 [Adaptive quality of service management for enterprise services](#)

[Daniel Gmach](#), [Stefan Krompass](#), [Andreas Scholz](#), [Martin Wimmer](#), [Alfons Kemper](#)

February 2008 **Transactions on the Web (TWEB)**, Volume 2 Issue 1

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Keywords: Quality of service, fuzzy controller, workload characterization

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Author Name

- ☐ Martin, P. (13)
- ☐ Powley, W. (11)
- ☐ Ailamaki, A. (8)
- ☐ Aboulmaga, A. (7)
- ☐ Bird, P. (6)

Subject Area

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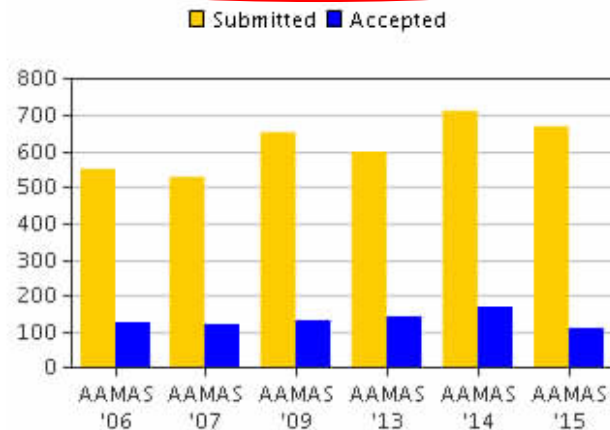
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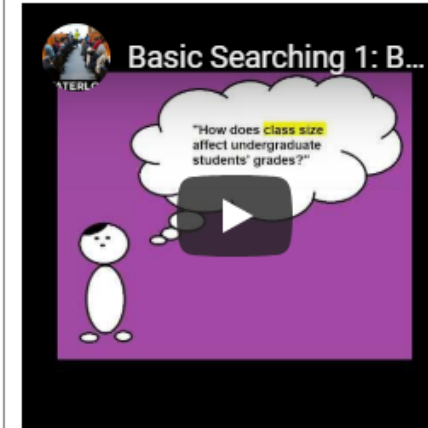
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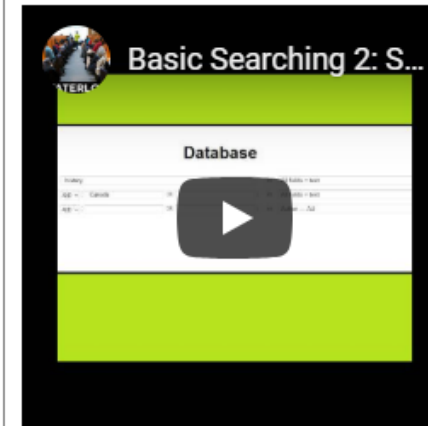
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<input type="checkbox"/>	12	NATURE MATERIALS	64,622	36.503	0.19787
<input type="checkbox"/>	13	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	126,479	35.289	0.26113
<input type="checkbox"/>	14	NATURE REVIEWS IMMUNOLOGY	28,938	34.985	0.09510
<input type="checkbox"/>	15	Nature Nanotechnology	34,387	34.048	0.15299

You, the author

Keep track of your own impact by using the H-index and ORCID

H-Index

- Author has published at least h papers that have each been cited at least h times
- Example
 - Published 7 papers
 - Times cited for each paper:
 - 4, 25, 3, 14, 22, 15, 9
- Question
 - What is this author's h-index?

Paper	Times cited
1	25
2	22
3	15
4	14
5	9
6	4
7	3

H-Index

- Author has published at least h papers that have each been cited at least h times
- Answer: H-index = 5
 - Have they published at least 7 papers which have each been cited at least 7 times? No
 - Have they published at least 6 papers which have each been cited at least 6 times? No
 - Have they published at least 5 papers which have each been cited at least 5 times? Yes

Paper	Times cited
1	25
2	22
3	15
4	14
5	9
6	4
7	3



Join the 35,000 Canadian researchers who use ORCID

ORCID = OPEN RESEARCHER AND CONTRIBUTOR ID

What is ORCID?

Similar to a DOI, an ORCID is a 16-digit number which identifies your research as belonging to you, regardless of how you sign your name on a publication (ex. Bob Smith or B. Smith).

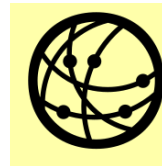
Key Benefits



Visible: Your research will be more visible in key databases if it's linked to ORCID.



Integrated: ORCID links with Scopus, Web of Science and other databases to **automatically** update your ORCID profile.



Global: ORCID is used by international researchers, funders and journals to support submissions and analytics.

ORCID: Open Researcher and Contributor ID

How does ORCID work:

- Researchers sign up for ORCID and then use the 16-digit number in publication manuscripts and grant applications to identify them and their research.
- Your ORCID also includes a profile where you can link pre-existing works to your ORCID using databases like Scopus, PubMed and many others to automatically update your profile.

Take Home Message: ORCID will help you in your academic career

- Many publishers now require an ORCID to submit manuscripts. Some of these publishers include: IEEE, Science Journals, Wiley, Springer Nature and SAGE Publications.

Questions about the Library?

The Search Process

Why do we need to create a comprehensive search? How do we create a comprehensive search?

Literature Review

- Critical aspect of the thesis/research paper
 - Sometimes referred to as 'background' or 'relevant work'
- Answers the question: where does your work fall within the research that has already been done in your field?
- Discuss the theories, ideas, and/or work that influenced your perspective on this topic
- Clarifies scope, provides definitions
- Proves significance of your thesis work/research
 - Defines a gap in the literature you are about to fill
 - Explains how your work extends previous research
 - Explains how your work challenges previous research

The Search Process

1. Develop your topic
2. Determine the most important concepts of your topic
3. Generate a list of useful search terms
4. Use these terms to create a search strategy specific to a selected database
5. Review results and revise search
6. Select another resource and search again!

Develop Your Topic

- Narrow your research question/thesis statement
 - What is in/out of scope?
 - Create your search
- Consider searching around your topic
 - Create a broad, deeper search on one or two areas in your topic

Important Concepts

- Isolate the main concepts of your research topic
 - What is the best way to achieve customer-specified performance objectives for workloads in a database management system?
 - customer-specified **AND** performance objectives **AND** workloads **AND** database management system

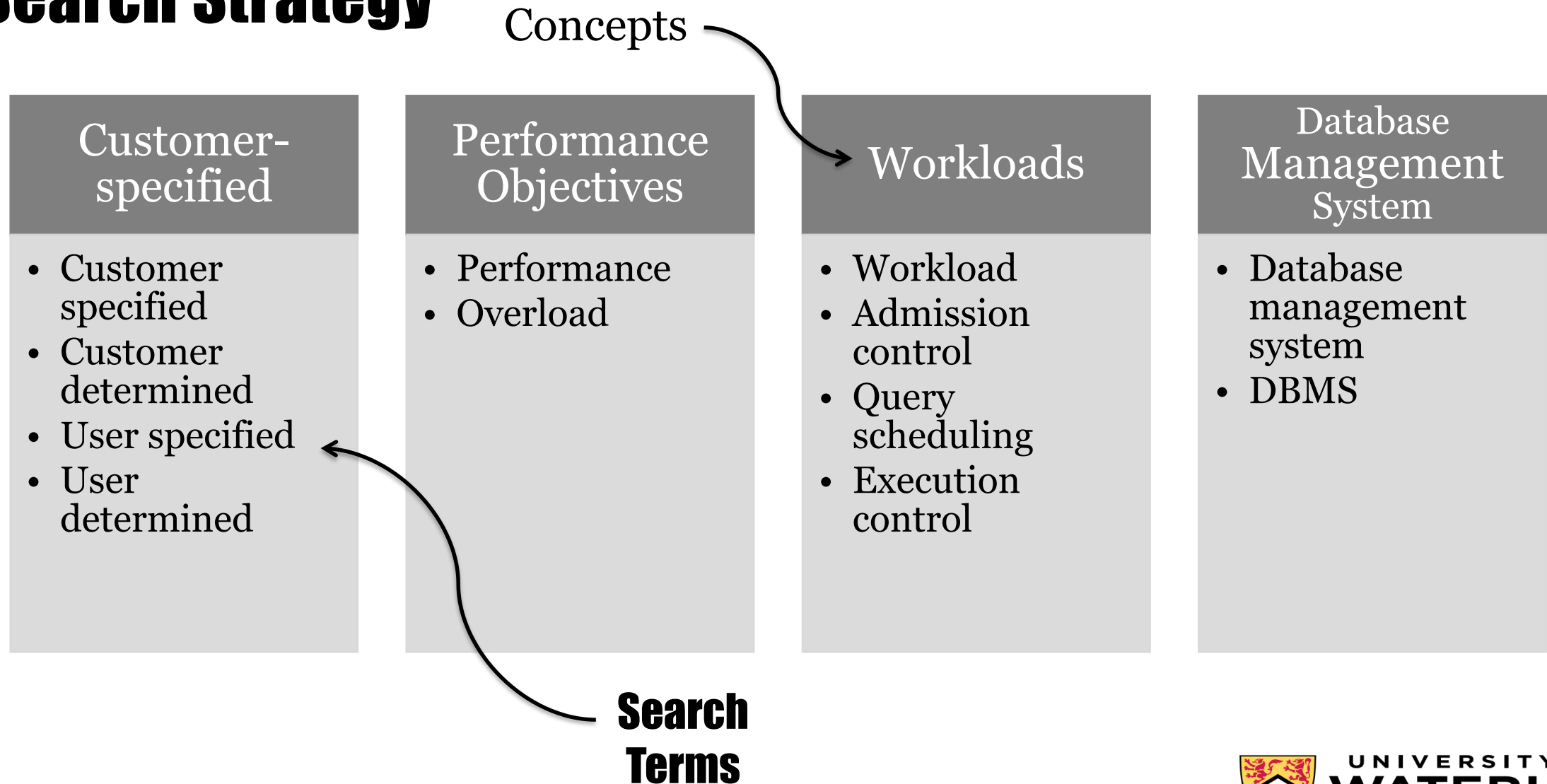
Search Terms

- To achieve customer-specified performance objectives for workloads in a **database management system**
 - Database management systems = Database management system = DBMS

Search Terms

- To achieve customer-specified performance objectives for **workloads** in a database management system
 - controlling workloads, workload performance management, resource control in workload
 - Types of resource control = admission control, query scheduling, execution control

Search Strategy



Search Strategy

- AND – combines concepts
- OR – combines search terms
- () – separates concepts and holds search terms together
- “Search phrases”
- Find the multiple endings of a word with an asterisk *
 - Canad* will find Canada, Canadian, Canadians

Search Strategy

("customer specified" OR "user specified") AND
(performance OR overload) AND (workload* OR "admission
control" OR "query scheduling" OR "execution control")
AND ("database management system" OR "database
management systems" OR DBMS)

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