

CS 697: Library Resources and your Research

Rebecca Hutchinson

Computer Science, Math, and Physics Librarian

November 2018



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Your Research Process

- UW Libraries
 - Have you used any of our spaces or services?
 - Which ones?
 - **What questions do you have/what would you like to know more about?**
- Finding information
 - Where do you look?
 - How do you search?
 - What works well/what tips would you give other students?
 - **What problems do you encounter/what is the hardest part when looking for information?**

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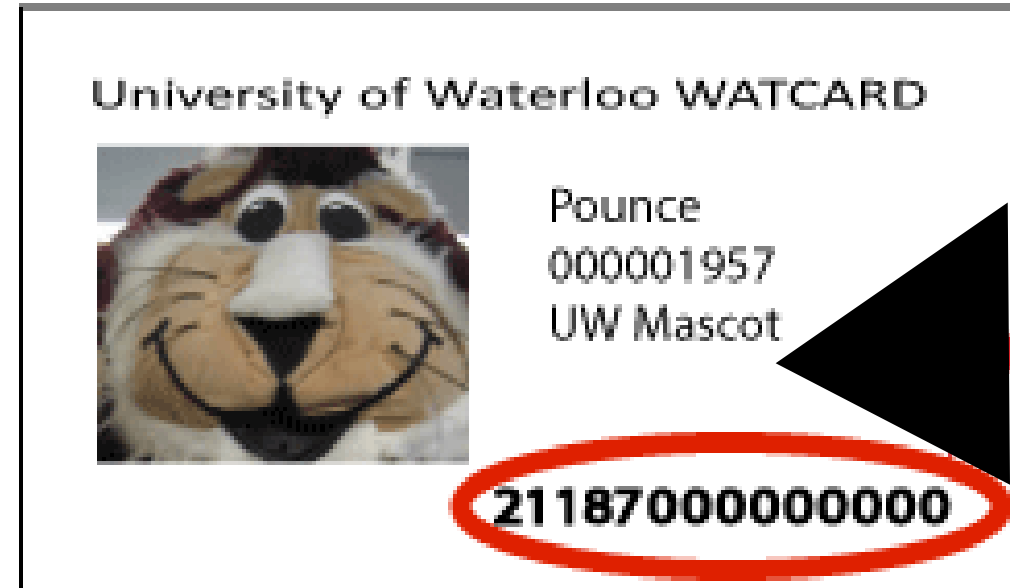
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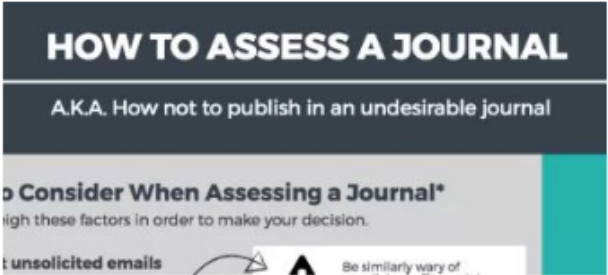
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Ottawa : Secretariat to the Government EDP Standards Committee, Dept. of Supply and Services 1982
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The database management system for the URL data logger monitor system.
Atomic Energy of Canada Limited. Wuschke, E. E.
Pinawa, Man. : Whiteshell Nuclear Research Establishment 1991
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Selecting a Database Management System for Agricultural Record Keeping.
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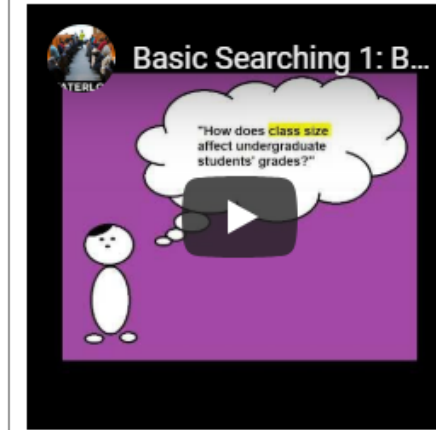
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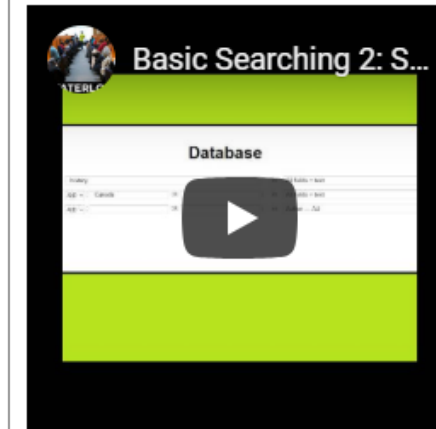
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Subject Area

- Computer Science (228)
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- HadoopDB: An architectural hybrid of mapreduce and DBMS technologies for analytical workloads Abouzeid, A., Bajda-Pawlikowski, K., Abadi, D., Silberschatz, A., Rasin, A. 2009 Proceedings of the VLDB Endowment 322

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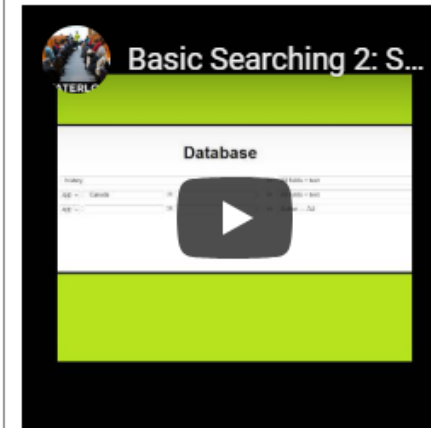
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Title [AAMAS 12 International Conference on Autonomous Agents and Multiagent Systems](#)
Valencia, Spain — June 04 - 08, 2012

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In-Cooperation [SIGAI ACM Special Interest Group on Artificial Intelligence](#)

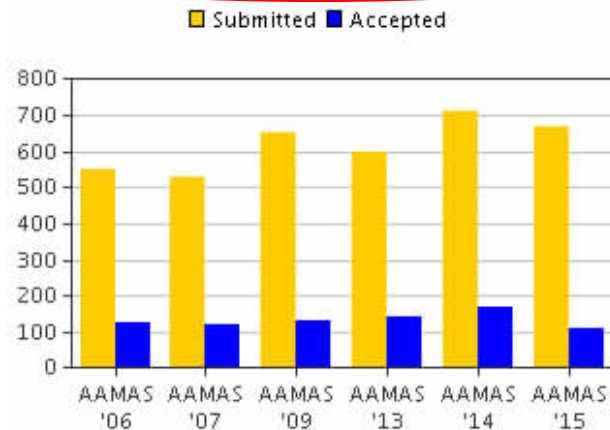
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Conference **AAMAS** [International Conference on Autonomous Agents and Multiagent Systems](#)



Overall Acceptance Rate 930 of 4,364 submissions, 21%



Year	Submitted	Accepted	Rate
AAMAS '06	553	127	23%
AAMAS '07	531	122	23%
AAMAS '09	651	132	20%
AAMAS '09	651	132	20%
AAMAS '13	599	140	23%
AAMAS '14	709	169	24%
AAMAS '15	670	108	16%
Overall	4,364	930	21%

You, the author

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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

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
- 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



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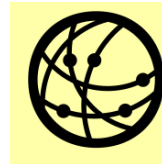
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The Search Process

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

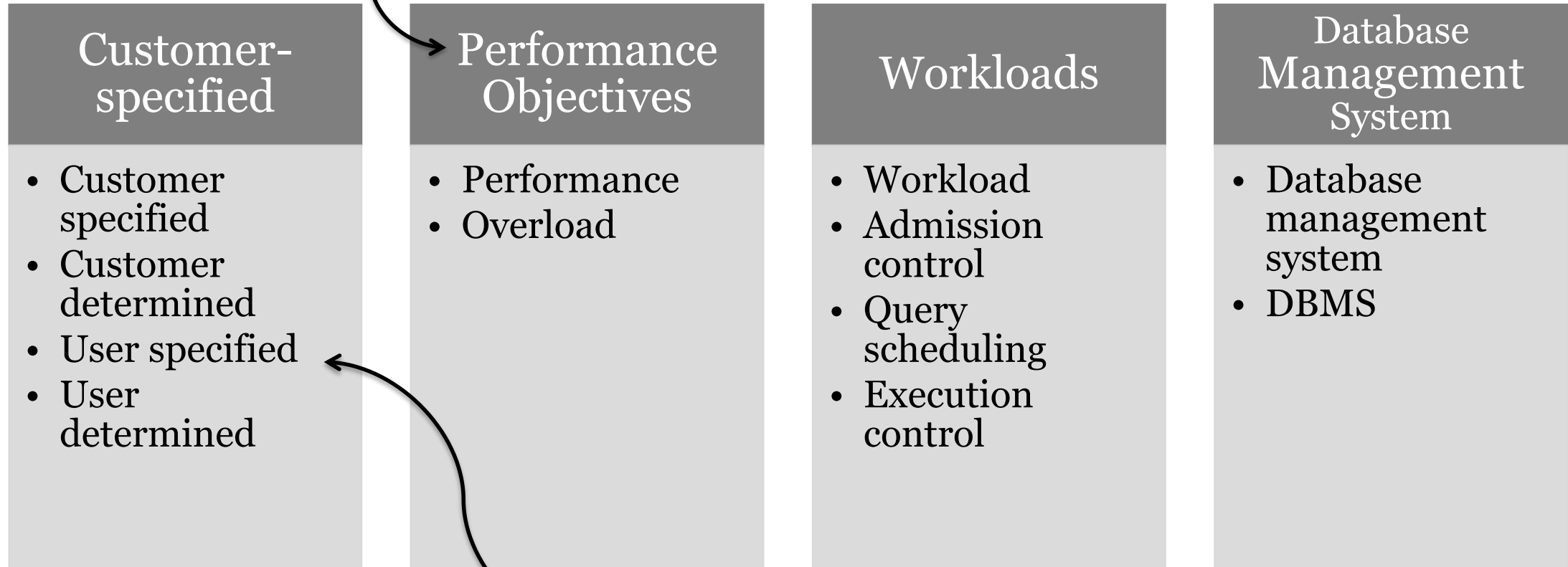
Search Terms

- 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
Terms**

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)