



Managing Research Literature

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Outline

- Role of literature in Computer Science
- Finding the right literature
- Tools to manage literature
- Citations: styles, tools, and techniques
- Some PR for the database group...

Role of Literature in CS

- Worst-case scenario

You write a paper about your recent research results and submit the paper to a conference/workshop

....the reviewers tell you that these results have already been published in journal X

- Second worst-case scenario

Your findings are indeed new

.... you missed most of the related work in your paper

Role of Literature in CS (2)

- Problem

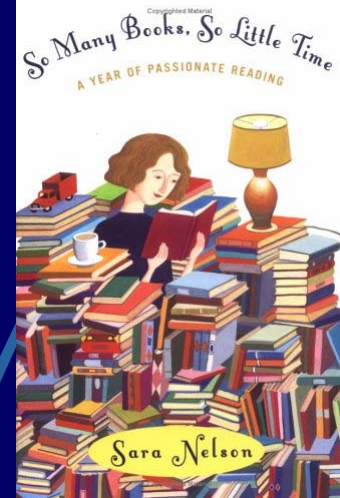
There are too many conferences, workshops, symposia one has to keep track of (at least in most areas)

Same oftentimes holds for journals, newsletters, bulletins etc.

There is a huge amount of CS literature on the Web, including theses, online books, technical reports...

- Solution

Make extensive use of existing literature search tools (assuming that you know what your research focus is...)



Information Sources

- Computer Science Bibliography Server (DBLP)
- ACM Portal
- IEEE Xplore
- Google Scholar
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- Networked Computer Science Technical Reference Library (NCSTRL)
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DBLP (Databases and Logic Programming) (Digital Bibliography & Library Project)

- Managed at the University of Trier, Germany
- Official site: <http://dblp.uni-trier.de/>
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- Services
 - Lists more than **950,000** articles from almost all areas in CS
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 - Extensive list of journals (ACM, IEEE, Elsevier, Kluwer, Springer...)
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Links

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- ♦ DBLP now lists more than **955000** articles.
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ACM SIGMOD Conference 2006: Chicago, Illinois, USA

Surajit Chaudhuri, Vagelis Hristidis, Neoklis Polyzotis (Eds.): Proceedings of the ACM SIGMOD International Conference on Management of Data, Chicago, Illinois, USA, June 27-29, 2006. ACM 2006, ISBN 1-59593-256-9 [BibTeX](#)

Research Sessions

P2P systems & data streams

- [H. V. Jagadish](#), [Beng Chin Ooi](#), [Kian-Lee Tan](#), [Quang Hieu Vu](#), [Rong Zhang](#):
Speeding up search in peer-to-peer networks with a multi-way tree structure. 1-12
Electronic Edition (ACM DL) [BibTeX](#)
- [Nicholas E. Taylor](#), [Zachary G. Ives](#):
Reconciling while tolerating disagreement in collaborative data sharing. 13-24
Electronic Edition (ACM DL) [BibTeX](#)
- [Fan Deng](#), [Davood Rafiei](#):
Approximately detecting duplicates for streaming data using stable bloom filters. 25-36
Electronic Edition (ACM DL) [BibTeX](#)

Query processing for relational data

- [Gang Gou](#), [Maxim Kormilitsin](#), [Rada Chirkova](#):
Query evaluation using overlapping views: completeness and efficiency. 37-48
Electronic Edition (ACM DL) [BibTeX](#)
- [Sara Cohen](#):
User-defined aggregate functions: bridging theory and practice. 49-60
Electronic Edition (ACM DL) [BibTeX](#)
- [Chengkai Li](#), [Kevin Chen-Chuan Chang](#), [Ihab F. Ilyas](#):
Supporting ad-hoc ranking aggregates. 61-72
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Database technology for novel applications

- [Amol Deshpande](#), [Samuel Madden](#):

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104	EE Alan J. Demers , Johannes Gehrke , Biswanath Panda , Mirek Riedewald , Varun Sharma , Walker M. White : Cayuga: A General Purpose Event Monitoring System. CIDR 2007 : 412-422
103	EE David J. Martin , Daniel Kifer , Ashwin Machanavajhala , Johannes Gehrke , Joseph Y. Halpern : Worst-Case Background Knowledge for Privacy-Preserving Data Publishing. ICDE 2007 : 126-135
102	EE Walker M. White , Mirek Riedewald , Johannes Gehrke , Alan J. Demers : What is "next" in event processing? PODS 2007 : 263-272
101	EE Lars Brenna , Alan J. Demers , Johannes Gehrke , Mingsheng Hong , Joel Ossher , Biswanath Panda , Mirek Riedewald , Mohit Thatte , Walker M. White : Cayuga: a high-performance event processing engine. SIGMOD Conference 2007 : 1100-1102
100	EE Nitin Gupta , Fan Yang , Alan J. Demers , Johannes Gehrke , Jayavel Shanmugasundaram : User-centric personalized extensibility for data-driven web applications. SIGMOD Conference 2007 : 1125-1127
99	EE Adina Crainiceanu , Prakash Linga , Ashwin Machanavajhala , Johannes Gehrke , Jayavel Shanmugasundaram : P-ring: an efficient and robust P2P range index structure. SIGMOD Conference 2007 : 223-234
98	EE Walker M. White , Alan J. Demers , Christoph Koch , Johannes Gehrke , Rajmohan Rajagopalan : Scaling games to epic proportion. SIGMOD Conference 2007 : 31-42
97	EE Mingsheng Hong , Alan J. Demers , Johannes Gehrke , Christoph Koch , Mirek Riedewald , Walker M. White : Massively multi-query join processing in publish/subscribe systems. SIGMOD Conference 2007 : 761-772
96	EE Fan Yang , Nitin Gupta , Nicholas Gerner , Xin Qi , Alan J. Demers , Johannes Gehrke , Jayavel Shanmugasundaram : A unified platform for data driven web applications with automatic client-server partitioning. WWW 2007 : 341-350
95	EE Zhiyuan Chen , Johannes Gehrke , Flip Korn , Nick Koudas , Jayavel Shanmugasundaram , Divesh Srivastava : Index structures for matching XML twigs using relational query processors. Data Knowl. Eng. 60(2): 283-302 (2007)

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C Martel, G Nuckolls, P Devanbu, M Gertz, A Kwong, ... - Manuscript, 2003 - cs.ucdavis.edu
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Moving Objects Databases: Issues and Solutions (1998) [\(Make Corrections\)](#) [\(74 citations\)](#)

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- [Efficient Monitoring and Querying of Distributed, Dynamic Data ... - Olston, Widom \(2005\)](#) [\(Correct\)](#)
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- 35:** [On Indexing Mobile Objects - Kollios, Gunopulos et al. - 1999](#)

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O. Wolfson, B. Xu, S. Chamberlain, and L. Jiang. Moving objects databases: Issues and solutions. In Proceedings of the 10th International Conference on Scientific and Statistical Database Management, pages 111--122, Capri, Italy, July 1998. <http://citeseer.ist.psu.edu/wolfson98moving.html> [More](#)

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Integrating document and data retrieval based on XML

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Volume 15 , Issue 1 (January 2006) [table of contents](#)
Pages: 53 - 83
Year of Publication: 2006
ISSN:1066-8888

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↑ ABSTRACT

For querying structured and semistructured data, data retrieval and document retrieval are two valuable and complementary techniques that have not yet been fully integrated. In this paper, we introduce integrated information retrieval (IIR), an XML-based retrieval approach that closes this gap. We introduce the syntax and semantics of an extension of the XQuery language called XQuery/IR. The extended language realizes IIR and thereby allows users to formulate new kinds of queries by nesting ranked document retrieval and precise data retrieval queries. Furthermore, we detail index structures and efficient query processing approaches for implementing XQuery/IR. Based on a new identification scheme for nodes in node-labeled tree structures, the extended index structures require only a fraction of the space of comparable index structures that only support data retrieval.

↑ INDEX TERMS

Keywords:

[Data retrieval](#), [Document retrieval](#), [Index structures](#), [Integrated information retrievals](#), [Structural join](#), [XML](#)

↑ Collaborative Colleagues:

Jan-Marco Bremer: Michael Gertz

Michael Gertz:	Demet Aksoy	Premkumar T. Devanbu	April P. Kwong	Carlos Rueda
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Tools

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@article{767150,
author = {Can T&\#252;rker and Michael Gertz},
title = {Semantic integrity support in SQL:1999 and commercial (object-)relational database management systems},
journal = {The VLDB Journal},
volume = {10}, number = {4}, year = {2001}, issn = {1066-8888}, pages = {241-269}, publisher = {Springer-Verlag New York, Inc.}, }
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32	Forlizzi et al.	A Data Model and Data Structures for Moving Objec...	2000	SIGMOD Co...		07/10/2007	DBLP:conf/si...
33	Gaber et al.	Mining data streams: a review.	2005		SIGMOD R...	2006.08.30	Gaber2005
34	Gavrilova and Rokne	Computing Line Intersections.	2001		Int. J. Imag...	03/04/2007	Gavrilova2001
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Author: Arie Croitoru and Peggy Agouris and Anthony Stefanidis [Manage]

Title: 3D trajectory matching by pose normalization

Booktitle: Proceedings 13th ACM International Workshop on Geographic Information Systems, ACM-GIS 2005GIS

Year: 2005

Pages: 153-162

Bibtexkey: Croitoru2005

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Article (bell03)

Bell, J.G.; McEvoy, L.A.; Estevez, A.; Shields, R.J. & Sargent, J.R.
 Optimising lipid nutrition in first-feeding flatfish larvae
Aquaculture, 2003, 227, 211-220

Abstract: Although global production of flatfish has increased in recent years, both in terms of numbers of fish and diversification into new species, problems still remain with low survival rates and difficulties with metamorphosis. This short review highlights some advances made in optimising lipid nutrition in an attempt to overcome some of these problems. Copepod nauplii are the best live prey for first-feeding flatfish larvae. Rotifers can provide a useful method of essential fatty acid delivery but Artemia are poorer in this regard, especially at first feeding. Copepods are nutritionally beneficial due to their naturally high levels of the essential highly unsaturated fatty acids (HUFA), 20:5n-3 (eicosapentaenoic acid; EPA) and 22:6n-3 (docosahexaenoic acid; DHA), which are predominantly in the form of phospholipids. Rotifers can be enriched with fish oil emulsions to provide compositions similar to copepods, while enriched Artemia are difficult to enrich with high levels of DHA and the HUFA tend to be located in triacylglycerides rather than phospholipids. There is considerable evidence that the superior efficacy of

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How to "Organize your Research Area"

Create and maintain

- a list of the major conferences, workshops, symposia in that area
- a list of all journals relevant to your area
- a list of people working in your area; see what their students are working on; check for technical reports and Ph.D. theses

- Make use of mailing lists
- Constantly browse these repositories; you don't want to miss an important "event"
- Try to categorize the literature you collect (e.g., build several .bib files); this is easy to do in jabref

How to Reference Literature

*[GerKwoMartDev2004ab] describe an approach....
....the definition in [ABCKLMN1999] shows that...*

[5] is similar to [6], except that they do not show the property given in [7].

There have been several solutions to this optimization problem [32,12,4,55,3,17,97,1,56,13,15].

There are numerous styles and guidelines that describe how to correctly reference literature. There are several different referencing systems.

- How to make an in-text reference?
- How to organize references and what style to use?

How to Reference Literature (2)

In-text references

- Jones (1998) compared student performance ...; In a recent study of student performance (Jones, 1998), ...
- Use author names, e.g., “Gertz et al. [12] showed that...” instead of “[12] showed that...”
- Have “short” references, e.g., based on the first letter of last name of the first three authors ([ABC2002], [GL2001]), or on first three letters in case of a single author ([Ger2002])

How to Reference Literature (3)

References

- Keep references sorted (by author name(s))
- Avoid conference/workshop acronyms, e.g.,
Gertz, M. (2002): About Fuzzy Acronyms. In UKDR02.
- For URLs, include date you checked URL the last time
- There are several style-guide, e.g., the American Psychological Association (APA) Format.
- Many publishers (IEEE, ACM, Springer...) provide style files and examples

How to Reference Literature (4)

References

- How to use references und use citations in research writing
<http://www.languages.ait.ac.th/EL21REFP.HTM>
- How to use references within the text of your work
http://www.bim.napier.ac.uk/~hazel/gen_ho/in_text.htm
- Using American Psychological Association (APA) Format (Updated to 5th Edition)
http://owl.english.purdue.edu/handouts/research/r_apa.html
- The Research Paper: Writing and Citing
<http://www.ithaca.edu/library/research/writingciting.php>

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