Managing Research Literature

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Overview

- Role of literature in Computer Science
- Finding the right literature
- Tools to manage literature
- Citations: styles, tools, and techniques

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
- Science Direct
- CiteSeer
- Networked Computer Science Technical Reference Library (NCSTRL)
- Collection of Computer Science Bibliographies

DBLP (Databases and Logic Programming) (Digital Bibliography & Library Project)

- Managed at the University of Trier, Germany
- Official site: http://dblp.uni-trier.de/
- Mirror sites: New York - Darmstadt - Los Angeles – ACM
- Services
  - Lists more than 800,000 articles from almost all areas in CS
  - Includes several hundred conferences, workshops, symposia etc.
  - Extensive list of journals (ACM, IEEE, Elsevier, Kluwer, Springer…)
  - Includes links to online paper versions (Springer, ACM, IEEE,…)
  - Links to author homepages (if available)
  - Author and (simple) keyword search
  - Co-author list
  - BibTeX records for each paper

Screenshot 1

DBLP Bibliography - Mozilla

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http://www.informatik.uni-trier.de/%7Eley/db/index.html

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Bibliographies

- **Conferences**: SIGMOD, VLDB, PODS, ER, EDBT, ICDE, POPL, ...
- **Journals**: CACM, TODS, TOIS, TOPLAS, DKE, VLDB J., Inf. Systems, TPLP, TCS, ...
- **Series**: LNCS/LNAI, IFIP
- **Books**: Collections - DB Textbooks
- **By Subject**: Database Systems, Logic Prog., IR, ...

Full Text: ACM SIGMOD Anthology

Links

- Computer Science Organizations: ACM (DL / SIGMOD / SIGIR), IEEE Computer Society (DL), IFIP, ...
- Related Services: CiteSeer, CS BibTeX, CompuScience, CoRR, NZ-DL, Zentralblatt MATH, MathSciNet ...
- Academic Genealogy Websites: AI, Mathematics, ...

DBLP News (October 2006)

- DBLP now lists more than 800000 articles.
- You may download **DBLP XML records** from http://dblp.uni-trier.de/xml/ - a simple DTD is available.

Done

Screenshot 2

ACM SIGMOD Conference 2006: Chicago, Illinois, USA - Mozilla

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http://www.informatik.uni-trier.de/%7Eley/db/conf/sigmod/sigmod2006.html

dblp .uni-trier.de

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
  Electronic Edition (ACM DL) BibTeX

Database technology for novel applications

- Amol Deshpande, Samuel Madden:

dblp .uni-trier.de

Johannes Gehrke

List of publications from the DBLP Bibliography Server - FAQ

Coauthor Index - Ask others: ACM DL - ACM Guide - CiteSeer - CSB - Google

Home Page

		2006
90	EE	Alan J. Demers, Johannes Gehrke, Mingsheng Hong, Mirek Riedewald, Walker M. White: Towards Expressive Publish/Subscribe Systems. EDBT 2006: 627-644
89	EE	Johannes Gehrke: Models and Methods for Privacy-Preserving Data Analysis and Publishing. ICDE 2006: 105
88	EE	Ashwin Machanavajjhala, Johannes Gehrke, Daniel Kifer, Muthuramakrishnan Venkitasubramaniam: l-Diversity: Privacy Beyond k-Anonymity. ICDE 2006: 24
87	EE	Fan Yang, Jayavel Shanmugasundaram, Mirek Riedewald, Johannes Gehrke: Hilda: A High-Level Language for Data-DrivenWeb Applications. ICDE 2006: 32
86	EE	Muthuramakrishnan Venkitasubramaniam, Ashwin Machanavajjhala, David Martin, Johannes Gehrke: Trusted CVS. ICDE Workshops 2006: 23
85	EE	William Y. Arms, Selcuk Aya, Manuel Calimlim, Jim Cordes, Julia Deneva, Pavel Dmitriev, Johannes Gehrke, Lawrence Gibbons, Christopher D. Jones, Valentin Kuznetsov, David A. Lifka, Mirek Riedewald, Dan Riley, Anders Ryd, Gregory J. Sharp: Three Case Studies of Large-Scale Data Flows. ICDE Workshops 2006: 66
84	EE	Ashwin Machanavajjhala, Johannes Gehrke: On the efficiency of checking perfect privacy. PODS 2006: 163-172
83	EE	Daniel Kifer, Johannes Gehrke: Injecting utility into anonymized datasets. SIGMOD Conference 2006: 217-228
82	EE	Nicholas Gerner, Fan Yang, Alan J. Demers, Johannes Gehrke, Mirek Riedewald, Jayavel Shanmugasundaram: Automatic client-server partitioning of data-driven web applications. SIGMOD Conference 2006: 760-762
81	EE	Biswanath Panda, Mirek Riedewald, Stephen B. Pope, Johannes Gehrke, L. Paul Chew: Indexing for Function Approximation. VLDB 2006: 523-534
80	EE	Johannes Gehrke, Ling Liu: Guest Editors' Introduction: Sensor-Network Applications. IEEE Internet Computing 10(2): 16-17 (2006)
		2005
79	EE	Niki Trigoni, Yong Yao, Alan J. Demers, Johannes Gehrke, Rajmohan Rajaraman: Multi-query Optimization for Sensor Networks. DCOSS 2005: 307-321
78	EE	Zhiyuan Chen, Johannes Gehrke, Flip Korn, Nick Koudas, Jayavel Shanmugasundaram, Divesh Srivastava: Index Structures for Matching XML...

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                                        e.g., 1996

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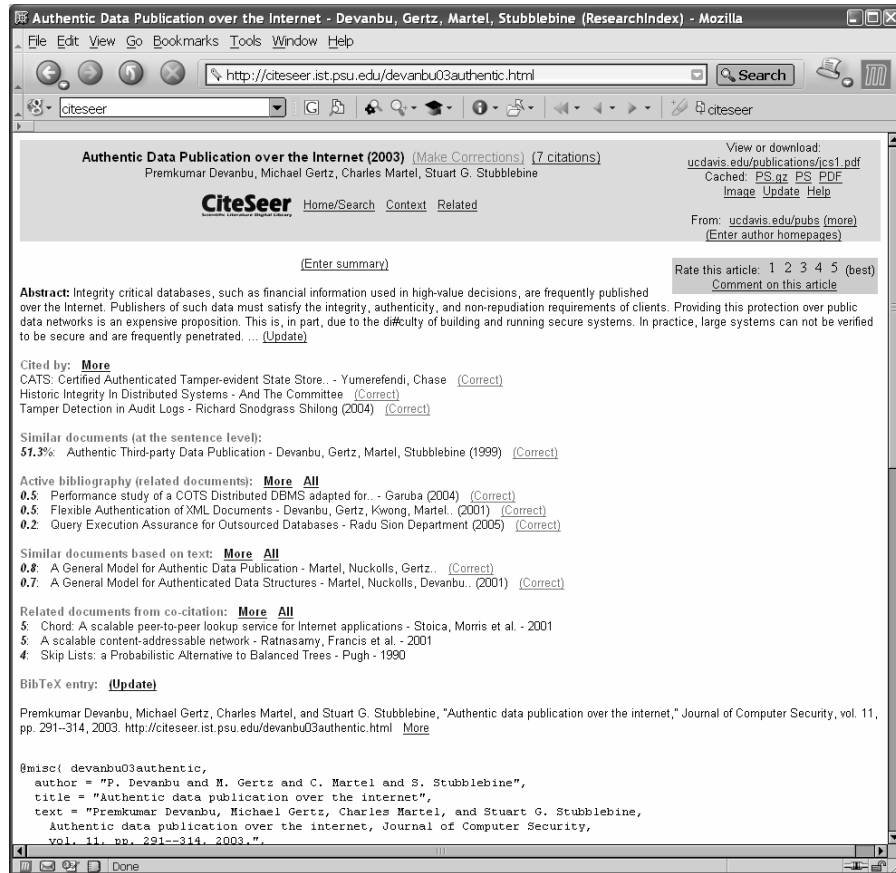   ☐ Social Sciences, Arts, and Humanities

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An Introduction to **Spatial Database Systems** - group of 14 »
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... 357 QVLDB An Introduction to **Spatial Database Systems** Ralf Hartmut GQting ... In this
survey, we discuss only **spatial database systems** in the restricted sense. ...
Cited by 202 - Web Search

An introduction to **spatial database systems** - group of 20 »
RH Güting - The VLDB Journal The International Journal on Very Large ..., 1994 - Springer
... 357 QVLDB An Introduction to **Spatial Database Systems** Ralf Hartmut Gfiting ... In this
survey, we discuss only **spatial database systems** in the restricted sense. ...
Cited by 175 - Web Search

... of Complex Objects Used for Approximation-based Query Processing in **Spatial Database Systems** - group of 8 »
T Brinkhoff, HP Kriegel, R Schneider - fh-oow.de
... Comparison of Approximations of Complex Objects Used for Approximation-
based Query Processing in **Spatial Database Systems** Thomas ...
Cited by 72 - View as HTML - Web Search - BL Direct

Spatial query processing in an object-oriented **database** system - group of 2 »
JA Orenstein - Proceedings of the 1986 ACM SIGMOD international conference ... - portal.acm.org
... 3rd ACM SIGACT-SIGMOD symposium on Principles of **database systems**, April 02-04,
1984, Waterloo, Ontario, Canada. OREN85 JA Orenstem. **Spatial** query processing in ...
Cited by 251 - Web Search

[BOOK] Principles of distributed **database systems**
, P Valduriez - Prentice Hall
... Data declustering and cluster ordering technique for **spatial** join scheduling ... Özsu ,
Patrick Valduriez, Distributed and parallel **database systems**, ACM Computing ...
Cited by 898 - Web Search - Library Search

[BOOK] Fundamentals of **database systems** - group of 3 »
R Elmasri, SB Navathe
... niques. Features found in enhanced **database systems** and the problems in- looks to
the future. ... an overview of the **database** design **spatial** and temporal ...
Cited by 1886 - Web Search - Library Search

A Storage and Access Architecture for Efficient Query Processing in **Spatial Database Systems** - group of 7 »
T Brinkhoff, H Horn, HP Kriegel, R Schneider - dbs.informatik.uni-muenchen.de
A Storage and Access Architecture for Efficient Query Processing in **Spatial Database**

CiteSeer

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Authentic Data Publication over the Internet - Devanbu, Gertz, Martel, Stubblebine (ResearchIndex) - Mozilla

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Premkumar Devanbu, Michael Gertz, Charles Martel, Stuart G. Stubblebine

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Abstract: Integrity critical databases, such as financial information used in high-value decisions, are frequently published over the Internet. Publishers of such data must satisfy the integrity, authenticity, and non-repudiation requirements of clients. Providing this protection over public data networks is an expensive proposition. This is, in part, due to the difficulty of building and running secure systems. In practice, large systems can not be verified to be secure and are frequently penetrated. ... (Update)

Cited by: **More**
CATS: Certified Authenticated Tamper-evident State Store.. - Yumerefendi, Chase   (Correct)
Historic Integrity In Distributed Systems - And The Committee   (Correct)
Tamper Detection in Audit Logs - Richard Snodgrass Shilong (2004)   (Correct)

Similar documents (at the sentence level):
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0.5:   Flexible Authentication of XML Documents - Devanbu, Gertz, Kwong, Martel.. (2001)   (Correct)
0.2:   Query Execution Assurance for Outsourced Databases - Radu Sion Department (2005)   (Correct)

Similar documents based on text: **More All**
0.8:   A General Model for Authentic Data Publication - Martel, Nuckolls, Gertz..   (Correct)
0.7:   A General Model for Authenticated Data Structures - Martel, Nuckolls, Devanbu.. (2001)   (Correct)

Related documents from co-citation: **More All**
5:   Chord: A scalable peer-to-peer lookup service for Internet applications - Stoica, Morris et al. - 2001
5:   A scalable content-addressable network - Ratnasamy, Francis et al. - 2001
4:   Skip Lists: a Probabilistic Alternative to Balanced Trees - Pugh - 1990

BibTeX entry: **(Update)**

Premkumar Devanbu, Michael Gertz, Charles Martel, and Stuart G. Stubblebine, "Authentic data publication over the internet," Journal of Computer Security, vol. 11, pp. 291--314, 2003. http://citeseer.ist.psu.edu/devanbu03authentic.html More

```
@misc{ devanbu03authentic,
    author = "P. Devanbu and M. Gertz and C. Martel and S. Stubblebine",
    title = "Authentic data publication over the internet",
    text = "Premkumar Devanbu, Michael Gertz, Charles Martel, and Stuart G. Stubblebine,
       Authentic data publication over the internet, Journal of Computer Security,
       vol. 11, pp. 291--314, 2003.",
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Integrating document and data retrieval based on XML

Full text   Pdf (841 KB)

Authors   Jan-Marco Bremer Department of Computer Science, University of California at Davis, USA
          Michael Gertz   Department of Computer Science, University of California at Davis, USA

Publisher   Springer-Verlag New York, Inc.   Secaucus, NJ, USA

Additional Information: abstract   index terms   collaborative colleagues

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DOI Bookmark: 10.1007/s00778-004-0150-4

⬆ **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
                  Omar Alonso   Madhavi Gandhi   Karl Levitt   Gunter Saake

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- ScienceDirect
  http://www.sciencedirect.com/
  (most UC online journals reside at that site)
- The WWW Virtual Library (http://vlib.org/);
  Computer Science Bibliography
  (http://liinwww.ira.uka.de/bibliography)

Tools

- Managing the possibly huge amount of literature you collect (and read) for your research is crucial; but, how to avoid tall stacks of papers ?
- Assumption: you use LaTeX in combination with BibTeX
  @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.}, }
- Other BibTeX related tools depend on the editor you use (e.g., refbib in emacs)

JabRef

"JabRef is a GUI for managing BibTeX databases. Bibtex is a standard LaTeX bibliography reference format commonly used in academia. Jab Ref works on all platforms and requires Java 1.4.2. JabRef builds on and extends the functionalities of BibKeeper and JBibtexManager. "

Features: Searching, Sorting and Editing, Automatic Key generation, Import bibliography formats: BibTex, Endnote (text),ISI Web of Science, Medline/Pubmed (xml),Scifinder format,OVID,INSPEC and RIS; Export: html and docbook, insert citations into LyX

http://jabref.sourceforge.net (Version 2.1, August 2006)

JabRef

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#		Author	Title	Year	Journal	Bibtexkey
10		Ando, Yasuhiro and Kobayashi, Shunjiro	Positional distribution of docosahexaenoic acid in triacyl...	2004	Aquaculture...	ando04a
11		Ando, Yasuhiro and Kobayashi, Shunjir...	Positional distribution of n-3 highly unsaturated fatty aci...	2004	Aquaculture	ando04
12		Ang, K. P. and Petrell, R. J.	Pellet wastage, and subsurface and surface feeding beh...	1998	Aquacult. Eng.	ang1998aq...
13		Anras, Marie-Laure Bégout and Lagar...	Measuring cultured fish swimming behaviour: first result...	2004	Aquaculture	anras04
14		Aragao, Claudia and Conceicao, Luis E...	Amino acid pools of rotifers and {A}rtemia under differe...	2004	Aquaculture	aragao04
15		Balon, Eugene K.	The theory of saltatory ontogeny and life history models ...	1985		balon1985
16		Baskerville-Bridges, B. and Kling, L. J.	Development and evaluation of microparticulate diets fo...	2000	Aquacult. N...	Baskerville-...
17		Beer, W. Nicholas and Anderson, Jame...	Modelling the growth of salmonid embryos	1997	J. Theor. Biol.	beer97
18		Belal, Ibrahim E. H.	A review of some fish nutrition methodologies	2005	Bioresource ...	belal05
19		Bell, J. G. and McEvoy, L. A. and Estev...	Optimising lipid nutrition in first-feeding flatfish larvae	2003	Aquaculture	bell03
20		Beyer, Jan E.	Recruitment stability and survival -- simple size-specifi...	1989	Dana	beyer1989...
21		Blyth, P. J. and Valdimarsson, S. K. an...	Diurnal and seasonal variation in feeding patterns of {A}...	1999	Aquaculture...	blyth1999a...
22		Boeuf, Gilles and Le Bail, Pierre-Yves	Does light have an influence on fish growth?	1999	Aquaculture	boeuf1999aq
23		Bogacki, P. and Shampine, L. F.	An efficient {R}unge-{K}utta (4,5) pair	1996	Computers ...	bogacki96
24		Boraas, Martin E. and Seale, Dianne B....	Rotifer size distribution changes during transient phases...	1998	Hydrobiologia	boraas98
25		Box, George E. P. and Hunter, William ...	Statistics for experimenters	1978		box78book
26		Browman, Howard I.	Embryology, ethology and ecology of ontogenetic critical...	1989	Brain Behav...	browman89

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 triglycerides rather than phospholipids. There is considerable evidence that the superior efficacy of

Status:

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 [ABC1999] 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): Fuzzy spatial data. 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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