

Reading List for CS 5590LD (Spring '09)

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1. Structural Indexes for XML

- GOLDMAN, R. AND WIDOM, J. 1997. DataGuides: Enabling query formulation and optimization in semistructured databases. In Proceedings of the 23rd VLDB Conference. Morgan-Kaufmann, Athens, Greece. 436445.
<http://www.vldb.org/conf/1997/P436.PDF>
Presenter: Praveen
- MILO, T. AND SUCIU, D. 1999. Index structures for path expressions. In Proceedings of the 7th International Conference on Database Theory. Springer-Verlag, Jerusalem, Israel. 277295.
http://www.cs.washington.edu/homes/suciu/file17_paper.ps
Presenter: Praveen
- KAUSHIK, R., BOHANNON, P., NAUGHTON, J. F., AND KORTH, H. F. 2002. Covering indexes for branching path queries. In Proceedings of the 2002 ACM-SIGMOD Conference. ACM, Madison, WI. 133 144.
<http://doi.acm.org/10.1145/564691.564707>
Presenter: Praveen

2. Using Relational Databases for XML

- YOSHIKAWA, M., AMAGASA, T., SHIMURA, T., AND UEMURA, S. 2001. XRel: A path-based approach to storage and retrieval of XML documents using relational databases. ACM Trans. Intern. Techn. 1, 1 (Aug.) 110141.
<http://doi.acm.org/10.1145/383034.383038>
- Jayavel Shanmugasundaram, H. Gang, Kristin Tufte, Chun Zhang, David J. DeWitt, and Jeffrey F. Naughton. Relational databases for querying XML documents: Limitations and opportunities. In VLDB'99, Proceedings of 25th International Conference on Very Large Data Bases, Edinburgh, Scotland, pages 302-304, 1999.
<http://www.vldb.org/conf/1999/P31.pdf>
Presenter: Sreejith (1/29/08)
- I. Tatarinov, S. D. Viglas, K. Beyer, J. Shanmugasundaram, E. Shekita, and C. Zhang. Storing and querying ordered xml using a relational database system. In Proceedings of SIGMOD 2002.

<http://doi.acm.org/10.1145/564691.564715>

Presenter: Praveen Rao

- GRUST, T. 2002. Accelerating XPath location steps. In Proceedings of the 2002 ACM-SIGMOD Conference. ACM, Madison, WI, 109120.

<http://doi.acm.org/10.1145/564691.564705>

3. Path and Twig Matching Algorithms (Labeling Schemes)

- LI, Q. AND MOON, B. 2001. Indexing and querying XML data for regular path expressions. In Proceedings of the 27th VLDB Conference. Morgan-Kaufmann, Rome, Italy. 361370.

<http://www.cs.arizona.edu/people/bkmoon/papers/vldb01.pdf>

Presenter: Lokesh – 02/05

- AL-KHALIFA, S., JAGADISH, H. V., KOUDAS, N., PATEL, J. M., SRIVASTAVA, D., AND WU, Y. 2002. Structural joins: A primitive for efficient XML query pattern matching. In Proceedings of the 18th IEEE International Conference on Data Engineering. IEEE Computer Society, San Jose, CA, 141152.

<http://www.eecs.umich.edu/~jignesh/publ/xmljoin-ICDE.pdf>

Presenter: Manoj Kumar – 02/24

- CHIEN, S.Y., VAGENA, Z., ZHANG, D., TSOTRAS, V. J., AND ZANIOLO, C. 2002. Efficient structural joins on indexed XML documents. In Proceedings of the 28th VLDB Conference. Morgan-Kaufmann, Hong Kong, China. 263274.

<http://portal.acm.org/citation.cfm?id=1287393>

Presenter: Joel Lopes – 03/03

- BRUNO, N., KOUDAS, N., AND SRIVASTAVA, D. 2002. Holistic twig joins: Optimal XML pattern matching. In Proceedings of the 2002 ACM-SIGMOD Conference. ACM, Madison, WI, 310321.

<http://doi.acm.org/10.1145/564691.564727>

Presenter: Praveen

- JIANG, H., LU, H., WANG, W., AND OOI, B. C. 2003. XR-Tree: Indexing XML data for efficient structural joins. In Proceedings of the 19th IEEE International Conference on Data Engineering. IEEE Computer Society, Bangalore, India. 253264.

http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=1260797

Presenter: Kaustubh – 03/10

- Jiaheng Lu, Tok Wang Ling, Chee-Yong Chan, and Ting Chen. From region encoding to extended dewey: On efficient processing of XML twig pattern matching. In Proceeding of VLDB, 2005.

<http://www.vldb2005.org/program/paper/tue/p193-lu.pdf>

4. Sequence Based Approaches for XML

- WANG, H., PARK, S., FAN, W., AND YU, P. S. 2003. ViST: A dynamic index method for querying xml data by tree structures. In Proceedings of the 2003 ACM-SIGMOD Conference. ACM, San Diego, CA. 110121.

<http://portal.acm.org/citation.cfm?id=872757.872774>

Presenter: Priyanka – 03/17

- RAO, P. AND MOON, B. 2004. PRIX: Indexing and querying XML using Prufer sequences. In Proceedings of the 20th IEEE International Conference on Data Engineering. IEEE Computer Society, Boston, MA. 288299.
<http://ieeexplore.ieee.org/iel5/9217/29235/01320005.pdf?arnumber=1320005>
Presenter: Praveen

5. XML Document Filtering

- Mehmet Altinel, Michael J. Franklin - Efficient Filtering of XML Documents for Selective Dissemination of Information. VLDB 2000.
<http://www.cs.berkeley.edu/franklin/Papers/XFilterVLDB00.pdf>
Presenter: Vasil – 04/07
- Yanlei Diao, Mehmet Altinel, Michael J. Franklin, Hao Zhang and Peter Fischer. Path sharing and predicate evaluation for high-performance XML filtering. ACM Trans. Database Syst. 28(4), 2003.
<http://portal.acm.org/citation.cfm?id=958942.958947>
Presenter: Praveen
- Joonho Kwon, Praveen Rao, Bongki Moon, Sukho Lee - FiST: Scalable XML Document Filtering by Sequencing Twig Patterns. Proceedings of the 31th International Conference on Very Large Databases (VLDB 2005), pages 217-228, Trondheim, Norway, August-September 2005.
<http://www.vldb2005.org/program/paper/tue/p217-kwon.pdf>
Presenter: Praveen

6. XML Mining

- Mohammed J. Zaki, Efficiently Mining Frequent Trees in a Forest: Algorithms and Applications, in IEEE Transaction on Knowledge and Data Engineering, special issue on Mining Biological Data, Wei Wang and Jiong Yang (eds.), Vol. 17, No. 8, pp 1021-1035, 2005.
<http://ieeexplore.ieee.org/iel5/69/31394/01458697.pdf?arnumber=1458697>

7. XML and P2P Networks

- Leonidas Galanis and Yuan Wang and Shawn R. Jeffery and David J. DeWitt - Locating data sources in large distributed systems. Proceedings of the 29th international conference on Very large data bases (VLDB 2003), pages 874–885, Berlin, Germany
<http://pages.cs.wisc.edu/~lgalanis/pubs/vldb2003.pdf>
Presenter: Dipali – 04/16
- Serge Abiteboul, Ioana Manolescu, Neoklis Polyzotis, Nicoleta Preda, Chong Sun - XML processing in DHT networks. ICDE 2008.
http://www.cs.ucsc.edu/~alkis/papers/ICDE08_conference_0577.pdf
Presenter: Steven – 04/23
- Praveen R. Rao, Bongki Moon - Locating XML Documents in a Peer-to-Peer Network using Distributed Hash Tables. TKDE 2009 (to appear).
<http://vortex.sce.umkc.edu/psix/TKDE-2008-03-0121.pdf>
Presenter: Praveen

8. Parallel XML Processing

- Yinfei Pan, Wei Lu, Ying Zhang, Kenneth Chiu - A Static Load-Balancing Scheme for Parallel XML Parsing on Multicore CPUs. IEEE International Symposium on Cluster Computing and the Grid, 2007.

<http://www.cs.indiana.edu/welu/pan-static.pdf>

Presenter: Vamshidhar – 04/28