

Yi Chen

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RESEARCH INTERESTS

- Semi-structured and XML data
- Data models and languages
- Query processing and optimization techniques for databases and streams
- Scientific data management

EDUCATION

- 2005 Ph.D. Computer and Information Science, University of Pennsylvania, PA.
Advisor: Susan B. Davidson
Thesis Topic: Efficient XPath Query Processing on Stored and Streaming XML Data
- 2000 M.S. Computer and Information Science, University of Pennsylvania, PA.
- 1999 B.S. Computer Science, Central South University, China

EMPLOYMENT

- 2005- Assistant Professor
Department of Computer Science and Engineering, Arizona State University, AZ
- Summer 2003 Research Intern. IBM Research, T.J. Watson Center, NY.
- Summer 2002 Research Intern. IBM Research, T.J. Watson Center, NY.
- 2000 - 2005 Research Assistant, Database and Bioinformatics Lab,
Department of Computer and Information Science, University of Pennsylvania, PA.
- 2000 - 2001 Teaching Assistant
Department of Computer and Information Science, University of Pennsylvania, PA.
- 1999 - 2000 Research Assistant, Intelligent Software Agents & Medical Informatics Lab,
Department of Computer and Information Science, University of Pennsylvania, PA.

PUBLICATIONS

- Yi Chen, Susan B. Davidson, and Yifeng Zheng. "An Efficient XPath Query Processor for XML Streams." In *Proceedings of 22nd International Conference on Data Engineering (ICDE)*, 2006.
- Steven Bird, Yi Chen, Susan B. Davidson, Haejoong Lee, and Yifeng Zheng. "Designing and Evaluating an XPath Dialect for Linguistic Queries." In *Proceedings of 22nd International Conference on Data Engineering (ICDE)*, 2006.

- Yi Chen, Susan B. Davidson, and Yifeng Zheng. "ViteX: A Streaming XPath Processing System." Demonstration description. In *Proceedings of 21st International Conference on Data Engineering (ICDE)*, 2005.
- Steven Bird, Yi Chen, Susan B. Davidson, Haejoong Lee, and Yifeng Zheng. "Extending XPath to Support Linguistic Queries." In *Proceedings of Programming Language Technologies for XML (PLAN-X)*, 2005.
- Yi Chen, Susan B. Davidson, and Yifeng Zheng. "BLAS: An Efficient XPath Processing System." In *Proceedings of 23rd ACM SIGMOD International Conference on Management of Data*, pp. 47-58, 2004.
- Yi Chen, George A. Mihaila, Susan B. Davidson, and Sriram Padmanabhan. "EXPedite: A System for Encoded XML Processing." In *Proceedings of 13rd ACM Conference on Information and Knowledge Management (CIKM)*, pp. 108-117, 2004.
- Yi Chen, George A. Mihaila, Sriram Padmanabhan, and Rajesh Bordawekar. "L-Tree: A Dynamic Labeling Structure for Ordered XML Data." In *Proceedings of International Workshop on Database Technologies for Handling XML Information on the Web (dataX)*, in conjunction with *EDBT*, 2004. Springer Lecture Notes in Computer Science 3268, pp. 209-218, 2004.
- Yi Chen, George A. Mihaila, Susan B. Davidson, and Sriram Padmanabhan. "Efficient Path Query Processing on Encoded XML." In *Proceedings of International Workshop on High Performance XML Processing*, in conjunction with *WWW*, 2004.
- Yi Chen, Susan B. Davidson, Carmem Hara, and Yifeng Zheng. "RRXS: Redundancy Reducing XML Storage in Relations." In *Proceedings of 29th International Conference on Very Large Data Bases (VLDB)*, pp. 189-200, 2003.
- Yi Chen, Susan B. Davidson, and Yifeng Zheng. "XKvalidator: A Constraint Validator for XML." In *Proceedings of 11th ACM Conference on Information and Knowledge Management (CIKM)*, pp. 446-452, 2002.
- Yi Chen, Susan B. Davidson, and Yifeng Zheng. "Constraint Preserving XML Storage in Relations." In *Proceedings of 5th International Workshop on the Web and Databases (WebDB)*, in conjunction with *SIGMOD*, pp. 7-12, 2002.

TALKS

- "EXPedite: A System for Encoded XML Processing" Given at the *ACM Conference on Information and Knowledge Management (CIKM)*, Washington D.C., 2004.
- "BLAS: An Efficient XPath Processing System" Given at the *ACM SIGMOD International Conference on Management of Data*, Paris, 2004.
- "Efficient Path Query Processing on Encoded XML" Given at the *Workshop on High Performance XML Processing*, New York, 2004.
- "RRXS: Redundancy Reducing XML Storage in Relations" Given at the *International Conference on Very Large Data Bases (VLDB)*, Berlin, 2003.
- "Constraint Preserving XML Storage in Relations" Given at the *Workshop on the Web and Databases (WebDB)*, Madison, Wisconsin, 2002.

- “Constraint Preserving XML Storage in Relations” Given at the *IBM T.J. Watson Research Center*, 2002.
- “Indexing Keys in Hierarchical Data” Given at the *Graduate Research Symposium*, University of Pennsylvania, 2001.

PROFESSIONAL SERVICE

- Journal Reviewing: ACM Transactions on Database Systems, IEEE Transactions on Knowledge and Data Engineering, Data & Knowledge Engineering, Information Systems
- Program Committees: XSym 05.
- Conference Reviewing: SIGMOD 05, 04, 03; PODS 05, 04; ICDE 05, 04; CIKM 04; XSym 04; WebDB 04.

PATENT

Yi Chen, George A. Mihaila, Sriram Padmanabhan, and Rajesh Bordawekar. “Method, System and Recording Medium for Maintaining the Order of Nodes in a Hierarchical Document.” Filed 2003.

AWARDS

- Dean's Fellowship, University of Pennsylvania, 1999-2000
- First Prize of Scholarship, Central South University, 1995-1999
- Tian Xia Scholarship, Central South University, 1997

REFERENCES

Available upon request.