
Curriculum Vitae

Min Wang

Research Staff Member and Manager
Unified Data Analytics Department
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Research Interests

- Query Processing and Optimization for Relational, XML, and Streaming Data
- Information Integration
- Data Mining
- Electronic Commerce
- Database Security

Education

- **Ph.D. Computer Science, Duke University**, Durham, North Carolina, 1999
Dissertation: Approximation and Learning Techniques in Database Systems
Advisor: Professor Jeffrey Scott Vitter
- **M.S. Computer Science, Duke University**, Durham, North Carolina
- **M.S. Computer Science, Tsinghua University**, Beijing, P.R.China
- **B.S. Computer Science, Tsinghua University**, Beijing, P.R.China

Other Training

- **Leadership Development Program, LEAP** (Leadership Education for Asian Pacifics, Inc.), San Jose, California, May 2008.
- **From Specialist to Strategist: Business Excellence for Women in Science, Technology and Engineering**, Smith Executive Education for Women, Smith College, Northampton, Massachusetts, June 2006.
- **Micro MBA**, IBM Research, Yorktown Heights, New York, February 2005-July 2005.

Employment History

- **Research Staff Member and Manager**, Unified Data Analytics Department, IBM T.J. Watson Research Center, Hawthorne, New York, 9/2008-present.
- **Research Staff Member and Manager**, Event-Based Systems Department, IBM T.J. Watson Research Center, Hawthorne, New York, 11/2006-9/2008.
- **Research Staff Member and Technical Assistant to Dr. Stu Feldman, Vice President of Computer Science**, IBM T.J. Watson Research Center, Hawthorne, New York, 7/2005-10/2006.
- **Research Staff Member**, Database Research Group, IBM T.J. Watson Research Center, Hawthorne, New York, 10/1999-6/2005.
- **Research Assistant**, Department of Computer Science, Duke University, Durham, North Carolina, 8/1994-8/1999.
- **Summer Intern**, DB2/MVS Optimizer Development, IBM Santa Teresa Laboratory (now IBM Silicon Vally Laboratory), San Jose, California, 5/1997-9/1997.
- **Intern**, Database Technology Institute, IBM Santa Teresa Laboratory (now IBM Silicon

Vally Laboratory), San Jose, California, 5/1996-4/1997.

- **Summer Intern**, DB2/MVS Optimizer Development, IBM Santa Teresa Laboratory (now IBM Silicon Vally Laboratory), San Jose, California, 5/1995-8/1995.

Honors and Awards

- **2009 SIGMOD Test of Time Award** for the paper from the 1999 SIGMOD Conference that has had the most impact (research, products, methodology) over the intervening decade, ACM SIGMOD/PODS 2009 Conference, June 19-July 2, 2009, Providence, Rhode Island, USA.
Paper: Approximate Computation of Multidimensional Aggregates of Sparse Data Using Wavelets (with Jeff Vitter).
- **ER 2008 Conference Best Paper Award (DKE 25Year Award)** (given by the Elsevier), 27th International Conference on Conceptual Modeling (ER 2008), Oct. 2008, Barcelona, Spain.
Paper: Modeling and Querying E-Commerce Data in Hybrid Relational-XML DBMSs (with Lipyeow Lim and Haixun Wang).
- **The Seventh Plateau Invention Achievement Award**, IBM, Oct. 2008. (The previous 6 Plateau Invention Achievement Awards were awarded by IBM during 2001-2007.)
- **Outstanding Technical Achievement Award (OTAA)** for contribution to DB2XML, Jan 2007, IBM.
- **Outstanding Ph.D. Dissertation Award**, Department of Computer Science, Duke University, 1999-2000 academic year.
Dissertation: Approximation and Learning Techniques in Database Systems
- **IBM Graduate Fellowship**, 1998-1999 academic year.
- **IBM Graduate Fellowship**, 1997-1998 academic year.
- **Duke University Research Assistantship**, 1995-1997.
- **Duke University Graduate Fellowship**, 1994-1995.

Selected Publications

Refereed Publications

1. [Linkage Query Writer](#) (O. Hassanzadeh, R. Xin, R. Miller, A. Kementsietsidis, L. Lim, and M. Wang), *Proceedings of the 35th International Conference on Very Large Data Bases (VLDB 2009)*, Lyon, France, August 24-28, 2009. Demonstration.
2. [A Declarative Framework for Semantic Link Discovery over Relational Data](#) (O. Hassanzadeh, L. Lim, A. Kementsietsidis, M. Wang), *Proceedings of the 18th International Conference on World Wide Web (WWW 2009)*, Madrid, Spain, April 20-24, 2009, pp.1101-1102.
3. [On the Efficiency of Provenance Queries](#) (A. Kementsietsidis and M. Wang), *Proceedings of 25th International Conference on Data Engineering (ICDE 2009)*, Shanghai, China, March 29 - April 4, 2009, pp.1223-1226.
4. [Supporting Ontology-based Keyword Search over Medical Databases](#) (A. Kementsietsidis, L. Lim, and M. Wang), *Proceedings of American Medical Informatics Association Annual Symposium (AMIA 2008)*, Washington, DC, November 8-12, 2008.
5. [Modeling and Querying E-Commerce Data in Hybrid Relational-XML DBMSs](#) (L. Lim, H. Wang, and M. Wang), *Proceedings of 27th International Conference on Conceptual Modeling (ER 2008)*, Barcelona, Spain, October 20-24, 2008, pp.294-310. **Received the Best Paper Award.**
6. [Advances and Challenges for Scalable Provenance in Stream Processing Systems](#) (A. Misra, M. Blount, A. Kementsietsidis, D. M. Sow, and M. Wang), *Proceedings of 2nd*

- International Provenance and Annotation Workshop (IPAW 2008)*, Salt Lake City, UT, USA, June 17-18, 2008, pp.253-265.
7. [Persisting and Querying Biometric Event Streams with Hybrid Relational-XML DBMS](#) (D. M. Sow, L. Lim, M. Wang, and K. H. Kim), *Proceedings of the 2007 Inaugural International Conference on Distributed Event-Based Systems (DEBS 2007)*, Toronto, Ontario, Canada, June 20-22, 2007, pp.189-197.
 8. [A Time-and-Value Centric Provenance Model and Architecture for Medical Event Streams](#) (M. Wang, M. Blount, J. S. Davis, A. Misra, and D. M. Sow), *Proceedings of the 1st ACM SIGMOBILE International Workshop on Systems and Networking Support for Healthcare and Assisted Living Environments (HealthNet 2007)*, San Juan, Puerto Rico, June 11, 2007, pp.95-100.
 9. [Semantic Data Management: Towards Querying Data with their Meaning](#) (L. Lim, H. Wang, and M. Wang), *Proceedings of 23rd International Conference on Data Engineering (ICDE 2007)*, Istanbul, Turkey, April 16-20, 2007, pp.1438-1442.
 10. [Century: Automated Aspects of Patient Care](#) (M. Blount, J. S. Davis, M. Ebling, J.H. Kim, K.H. Kim, K.Y. Lee, A.Misra, S.H. Park, D. M. Sow, Y.J. Tak, M. Wang, and K. Witting), *Proceedings of 13th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA 2007)*, Daegu, Korea, August 21-24, 2007, pp.504-509.
 11. [Supporting Ranking and Clustering as Generalized Order-By and Group-By](#) (C. Li, M. Wang, L. Lim, H. Wang, and K. Chang), *Proceedings of the ACM SIGMOD International Conference on Management of Data (SIGMOD 2007)*, Beijing, China, June 12-14, 2007, pp.127-138.
 12. [Unifying Data and Domain Knowledge Using Virtual Views](#) (L. Lim, H. Wang, and M. Wang), *Proceedings of the 33rd International Conference on Very Large Data Bases (VLDB 2007)*, Vienna, Austria, September 23-27, 2007, pp.255-266.
 13. [Efficient Update of Indexes for Dynamically Changing Web Documents](#) (R. C. Agarwal, L. Lim, M. Wang, S. Padmanabhan, and J. S. Vitter), *Journal of World Wide Web, Vol. 10, No. 1*, March 2007, pp.37-69.
 14. [Cost-Based Optimization in DB2XML](#) (A. Balmin, T. Eliaz, J. Hornibrook, L. Lim, G. Lohman, D. Simmen, M. Wang, and C. Zhang), *IBM Systems Journal, Vol. 45, No. 2*, 2006 pp.299-320.
 15. [Boolean + Ranking: Querying a Database By K-Constrained Optimization](#) (Z. Zhang, S. Hwang, K. Chang, M. Wang, C. Lang, and Y. C. Chang), *Proceedings of 2006 ACM SIGMOD International Conference on Management of Data (SIGMOD 2006)*, Chicago, Illinois, June 26-29, 2006, pp.359-370.
 16. [Finding the Plateau in an Aggregated Time Series](#) (M. Wang and X. S. Wang), *Proceedings of the 7th International Conference on Web-Age Information Management(WAIM 2006)*, Hong Kong, China, June 17-19, 2006, pp.325-336.
 17. [Managing E-Commerce Catalogs in a DBMS with Native XML Support](#) (L. Lim and M. Wang), *Proceedings of IEEE International Conference on e-Business Engineering (ICEBE 2005)*, Beijing, China, October 18-20, 2005, pp.564-571.
 18. [Evaluating Trigger Conditions on Streaming Time Series with User-given Quality Requirements](#) (L. Gao, M. Wang, and X. S. Wang), *Journal of Universal Computer Science, Vol. 11, No. 8, 2005*, pp.1397-1410.
 19. [CXHist: An On-line Classification-Based Histogram for XML String Selectivity Estimation](#) (L. Lim, M. Wang, and J. S. Vitter), *Proceedings of the 31st International Conference on Very Large Data Bases (VLDB 2005)*, Trondheim, Norway, August 30-September 2, 2005, pp.1187-1198.
 20. [Quality Driven Evaluation of Trigger Conditions on Streaming Time Series](#)(L. Gao, M. Wang, and X. S. Wang), *Proceedings of the 20th ACM Symposium on Applied Computing -Special Track on Data Streams (SAC 2005)*, New Mexico, USA, March 14-17, 2005, pp.563-567.

21. [Expressing and Optimizing Similarity-Based Queries in SQL](#) (L. Gao, M. Wang, X. S. Wang, and S. Padmanabhan), *Proceedings of the 3rd International Conference on Conceptual Modeling (ER2004)*, Shanghai, China, November 8-12, 2004, pp.464-478.
22. [Modeling Autonomous Catalog for Electronic Commerce](#) (Y. C. Chang, V. R. Chillakuru, and M. Wang), *Proceedings of the 3rd International Conference on Conceptual Modeling (ER2004)*, Shanghai, China, November 8-12, 2004, pp.828-830.
23. [Condition Evaluation for Speculative Systems: a Streaming Time Series Case](#) (X. S. Wang, L. Gao, and M. Wang), *Proceedings of the 2nd International Workshop on Spatio-Temporal Database Management (STDBM 2004)*, Toronto, Canada, August 30, 2004, pp.65-72.
24. [Scalable Mining for Classification Rules in Relational Databases](#) (M. Wang, B. Iyer, and J. S. Vitter), *Institute of Mathematical Statistics Lecture Notes - Monograph Series, Vol. 45, 2004*, pp. 348-377.
25. [SASH: A Self-Adaptive Histogram Set for Dynamically Changing Workloads](#) (L. Lim, M. Wang, and J. S. Vitter), *Proceedings of the 29th International Conference on Very Large Databases (VLDB 2003)*, Berlin, Germany, September 9-12, 2003, pp.369-380.
26. [Efficient Evaluation of Composite Correlations for Streaming Time Series](#) (M. Wang and X. S. Wang), *Proceedings of the 4th International Conference on Web-Age Information Management (WAIM 2003)*, Chengdu, China, August 17-19, 2003, pp.369-380.
27. [Epi-SPIRE: A Bio-Surveillance System for Environmental and Public Health Activity Monitoring](#) (C. S. Li, C. Aggarwal, M. Campbell, Y. C. Chang, G. Glass, V. S. Iyengar, M. Joshi, C. Y. Lin, M. J. R. Smith, B. L. Tseng, M. Wang, K. L. Wu, and P. S. Yu), *Proceedings of the IEEE International Conference on Multimedia & Expo (ICME 2003)*, Baltimore, Maryland, July 6-9, 2003, pp.713-716.
28. [A Learning-Based Approach to Estimate Statistics of Operators in Continuous Queries: a Case Study](#) (L. Gao, M. Wang, X. S. Wang, and S. Padmanabhan), *Proceedings of the 8th ACM SIGMOD Workshop on Research Issues in Data Mining and Knowledge Discovery (DMKD 2003)*, San Diego, California, June 13, 2003.
29. [Dynamic Maintenance of Web Indexes Using Landmarks](#) (L. Lim, M. Wang, S. Padmanabhan, J. S. Vitter, and R. Agarwal), *Proceedings of the 12th International World Wide Web Conference (WWW 2003)*, Budapest, Hungary, May 20-24, 2003, pp.102-111.
30. [XPathLearner: An On-line Self-Tuning Markov Histogram for XML Path Selectivity Estimation](#) (L. Lim, M. Wang, S. Padmanabhan, J. S. Vitter, and R. Parr), *Proceedings of the 28th International Conference on Very Large Databases (VLDB 2002)*, Hong Kong, China, August 20-23, 2002, pp.442-453.
31. [Supporting Efficient Parametric Search of E-Commerce Data: a Loosely-Coupled Solution](#) (M. Wang, Y. C. Chang, and S. Padmanabhan), *Proceedings of the 8th Conference on Extending Database Technology (EDBT 2002)*, Prague, the Czech Republic, March 24-28, 2002, pp.409-426.
32. [Optimizing Relational Store for E-Catalog Queries: a Data Mining Approach](#) (M. Wang and X. S. Wang), *Proceedings of 2002 ACM Symposium on Applied Computing -Special Track on WWW and E-business Applications (SAC 2002)*, Madrid, Spain, March 10-14, 2002, pp.1147-1152.
33. [Cryptography and Relational Database Management Systems](#) (J. He and M. Wang), *Proceedings of the 5th International Database Engineering and Applications Symposium (IDEAS 2001)*, Grenoble, France, July 16-18, 2001, pp.273-284.
34. [Wavelet-Based Cost Estimation for Spatial Queries](#) (M. Wang, J. S. Vitter, L. Lim, and S. Padmanabhan), *Proceedings of the 7th International Symposium on Spatial and Temporal Databases (SSTD 2001)*, Redondo Beach, CA, USA, July 12-15, 2001, pp. 175-196.
35. [Characterizing Web Document Change](#) (L. Lim, M. Wang, S. Padmanabhan, J. S. Vitter and R. C. Agarwal), *Proceedings of the 2nd International Conference on Web-Age Information Management (WAIM 2001)*, Xi'an, China, July 9-11, 2001, pp.133-144.

36. [Dynamic Maintenance of Wavelet-Based Histograms](#) (Y. Matias, J. S. Vitter, and M. Wang), *Proceedings of the 26th International Conference on Very Large Databases (VLDB 2000)*, Cairo, Egypt, September 10-14, 2000, pp.101-110.
37. [Approximate Computation of Multidimensional Aggregates of Sparse Data Using Wavelets](#) (J. S. Vitter and M. Wang), *Proceedings of the 1999 ACM SIGMOD International Conference on Management of Data (SIGMOD 1999)*, Philadelphia, June 1999, pp.193-204. **Received 2009 SIGMOD Test of Time Award.**
38. [Data Cube Approximation and Histograms via Wavelets](#) (J. S. Vitter, M. Wang, and B. Iyer), *Proceedings of Seventh International Conference on Information and Knowledge Management (CIKM 1998)*, Washington D.C., November 1998, pp.96-104.
39. [Scalable Mining for Classification Rules in Relational Databases](#) (M. Wang, B. Iyer, and J. S. Vitter), *Proceedings of International Database Engineering & Applications Symposium (IDEAS 1998)*, Cardiff, Wales, U.K., July 1998, pp. 58-67.
40. [Wavelet-Based Histograms for Selectivity Estimation](#) (Y. Matias, J. S. Vitter, and M. Wang), *Proceedings of the 1998 ACM SIGMOD International Conference on Management of Data (SIGMOD 1998)*, Seattle, Washington, June 1998, pp. 448-459.
41. MIND: A Scalable Classifier in Relational Databases (M. Wang, B. Iyer, and J. S. Vitter), *Proceedings of ACM-SIGMOD Workshop on Research Issues on Data Mining and Knowledge Discovery (DMKD 1998)*, Seattle, Washington, June 1998.
42. [Efficient Roll-Up and Drill-Down Analysis in Relational Databases](#) (M. Wang and B. Iyer), *Proceedings of ACM-SIGMOD Workshop on Research Issues on Data Mining and Knowledge Discovery (DMKD 1997)*, Tucson, Arizona, May 1997.
43. [Selectivity Estimation in the Presence of Alphanumeric Correlations](#) (M. Wang, J. S. Vitter, and B. Iyer), *Proceedings of the 13th Annual IEEE Conference on Data Engineering (ICDE 1997)*, Birmingham, England, April 1997, pp.169-180.
44. A New Cryptographic Key Management Scheme (M. Wang), *Chinese Journal of Computers*, Vol. 16, No. 2, 1993, pp.106-112 (In Chinese).

Other Publications

45. [DBMSs with Native XML Support: Towards Faster, Richer, and Smarter Data Management](#), keynote talk (M. Wang), *Proceedings of International Workshop on Emerging Trends of Web Technologies and Applications (WebETrends, APWeb/WAIM Workshop 2007)*, Huang Shan, China, June 16-18, 2007, pp.253-254.
46. [Approximation and Learning Techniques in Database Systems](#), *Ph.D. Thesis*, Duke University, August 1999.
47. A Method for Estimating Filter Factors for Multi-Column Queries (M. Wang, T. Beavin, B. Iyer, and H. Tie), *Technical Report*, IBM Santa Teresa Laboratory, August 1995.
48. An Experimental Study of Alphanumeric Selectivity Estimation (M. Wang, T. Beavin, B. Iyer, and H. Tie), *Technical Report*, IBM Santa Teresa Laboratory, August 1995.

Patents (10 patents issued among 29 filed)

1. Indexing Provenance Data and Evaluation Provenance Data Queries in Data Processing Systems. Filed as *Docket YOR920080470US1* in US on 05/20/2009.
2. User-Defined Granular Determination of Data Quality. Filed as *Docket YOR920080222US1* in US on 12/31/08.
3. System and Method for Provenance Function Window Optimization. Filed as *Docket YOR920070707US1* in US on 03/12/2008.
4. A method of Collaborative Evaluation Infrastructure to Assess the Quality of Healthcare Clinical Decision Actors. Filed as *Docket KR920070004US1* in US on 06/04/2008.
5. Method and Apparatus for Determining and Validating Provenance Data in Data Stream

- Processing System. Filed as *Docket YOR920070681US1* in US on 05/22/2008.
6. Method and Apparatus for Maintaining and Processing Provenance Data in Data Stream Processing System. Filed as *Docket YOR920070680US1* in US on 05/22/2008.
 7. Method and Apparatus for Functional Model-Based Data Provenance in Stream Processing Environments. Filed as *Docket YOR920070310US1* in US on 06/08/2007.
 8. Method and System for Combining Ranking and Clustering in a Data Management System. Filed as *Docket YOR920070101US1* in US on 04/25/2007.
 9. Method and System for Indexing and Serializing Data. Filed as *Docket YOR920060843US1* in US on 03/02/2007. Filed as *Docket YOR920060843PCT1* in PCT on 02/07/2008.
 10. Querying Data and an Associated Ontology in a Database Management System. Filed as *Docket YOR920060649US1* in US on 01/17/2007. Filed as *Docket YOR920060649PCT1* in PCT on 01/10/2008.
 11. Identifying and Annotating Shared Hierarchical Markup Document Trees. Filed as *Docket YOR920060543US1* in US on 10/11/2006.
 12. Processing Queries on Hierarchical Markup Data Using Shared Hierarchical Markup Trees. Filed as *Docket YOR920060541US1* in US on 10/11/2006.
 13. System and Method for Searching Deep Web Service. Filed as *Docket YOR920060245US1* in US on 08/14/2006. Filed as *Docket YOR920060245US2* in US on 07/15/2008. **Issued** as *Patent 7533085* in US on 05/12/2009
 14. Statistics Collection Using Path-Value Pairs for Relational Databases. Filed as *Docket YOR920060207US1* in US 05/16/2006. **Issued** as *Patent 7472108* in US on 12/30/2008.
 15. Statistics Collection Using Path-Identifiers for Relational Databases. Filed as *Docket YOR920060098US1* in US on 05/16/2006.
 16. Method and Apparatus for Organizing Data Sources. Filed as *Docket YOR920060232US1* in US on 08/14/2006. Filed as *Docket YOR920060232US2* in US on 06/27/2008.
 17. Method for Supporting Ontology-Related Semantic Queries in DBMSs with XML Support. Filed as *Docket YOR920060225US1* in US on 03/02/2007.
 18. Classification-Based Method and Apparatus for String Selectivity Estimation. Filed as *Docket YOR920060138US1* in US on 06/26/2006. **Issued** as *Patent 7395270* in US on 07/01/2008. Filed as *Docket YOR920060138US2* in on US 03/28/2008.
 19. Techniques for Estimating Item Frequencies in Large Data Sets. Filed as *Docket YOR920040290US1* in US on 09/27/2004.
 20. Methods and Apparatus for Incremental Approximate Nearest Neighbor Searching. Filed as *Docket YOR920050240US1* in US on 08/31/2005. Filed as *Docket YOR920050240US2* in US on 03/31/2008. **Issued** as *Patent 7512282* in US on 03/31/2009.
 21. Method for Merging Multiple Ranked Lists with Bounded Memory. Filed as *Docket YOR920040249US1* in US on 02/24/2005.
 22. A Learning-Based Method for Estimating Cost and Statistics of Complex Operators in Continuous Queries. Filed as *Docket YOR920040258US1* in US on 11/08/2004. Filed as *Docket YOR920040258US2* in US on 02/03/2009
 23. Enabling Interoperability between Participants in a Value Network. Filed as *Docket YOR920030622US1* in US on 04/29/2004. Filed as *Docket YOR920030622US2* in US on 07/24/2008. Filed as *Docket YOR920030622CNI* in CN on 11/30/2004. Filed as *Docket YOR920030622EPI* in EP on 11/30/2004. Filed as *Docket YOR920030622JPI* in JP on 11/30/2004. Filed as *Docket YOR920030622KRI* in KR on 11/30/2004. Filed as *Docket YOR920030622PCT1* in PCT on 11/30/2004. Filed as *Docket YOR920030622TW1* in TW on 04/13/2005.
 24. Query Processing Method of Name-Value Pairs in Relational Databases. Filed as *Docket YOR920010783US1* in US on 03/26/2002. **Issued** as *Patent 6691102* in US on 02/10/2004.
 25. Relational Database Management Encryption System. Filed as *Docket YOR920010553US1* in US on 12/28/2001. **Issued** as *Patent 7269729* in US on 09/11/2007.
 26. Dynamic Maintenance of Web Indexes Using Landmarks. Filed as *Docket*

- YOR920030009US1* in US on 05/06/2003. **Issued** as *Patent 7299404* in US on 11/20/2007.
27. Scalable Set-Oriented Classifier. Filed as *Docket STL919960061US1* in US on 02/14/1997. **Issued** as *Patent 5899992* in US on 05/04/1999.
 28. Query Optimization Through the Use of Multi-Column Statistics to Avoid the Problems of Non-Indexed Column Correlation. Filed as *Docket STL919960067US2* in US on 03/26/1999. **Issued** as *Patent 6272487* in US on 08/07/2001.
 29. Query Optimization Through the Use of Multi-Column Statistics to Avoid the Problems of Column Correlation. Filed as *Docket STL919960067US1* in US on 02/28/1997. **Issued** as *Patent 5995957* in US on 11/30/1999.

Professional Activities

- **Chair**, IBM Research Professional Interest Community on Data Management (DM PIC), Jan. 2008-present.
- **Referee** for conferences: *SIGMOD*, *VLDB*, *PODS*, *ICDE*, *EDBT*, *KDD*, *CIKM*, *WAIM*, *SSTD*, *EDBT*, *ICDCS*, *CVIU*, 1996--present.
- **Referee** for journals: *Journal of Information Sciences*, *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, and *ACM Transactions on Database Systems (TODS)* , 1996--present.
- **Review Board Member**, *VLDB Journal Track* , Sept. 2008-present.
- **Program Committee Member** for *VLDB 2009*, *WAIM&APWeb 2009*, *SIGMOD 2008 IDAR Workshop*, *ICDE 2008 DBRank Workshop*, *APWeb 2008*, *SAC 2008 (Data Streams Track)*, *VLDB 2007*, *SAC 2007 (Data Streams Track)*, *WAIM&APWeb 2007*, *SAC 2006 (Data Streams Track)*, *WAIM 2006*, *SAC 2005 (Data Streams Track)*, *VLDB 2005*, *SAC 2004 (Data Streams Track)*, *APWeb 2004*, *WAIM 2004*, *WAIM 2003*, *DASFFA 2003*, *WAIM 2002*, *DaMeB 2001*, *WAIM 2001*.
- **Publication Chair** for *ICEBE 2005*.
- **Tutorial Chair** for *WAIM 2001*.
- **Panelist** at *WAIM 2000*.
- **Member** of *ACM*.

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