X. Sean Wang

Dorothean Professor, Computer Science

Education
Ph.D. Computer Science, University of Southern California, 1992
M.Sc. Computer Science, Fudan University, China, 1985
B.Sc. Computer Science, Fudan University, China, 1982

Research Areas
Sensor Networks, Information Security, Scientific and Time Series Data Management, Data mining and Data Warehousing, Database Theory

Courses
Data Structures, Compiler Construction, Advanced Database Systems, Computing Security, Distributed Computing
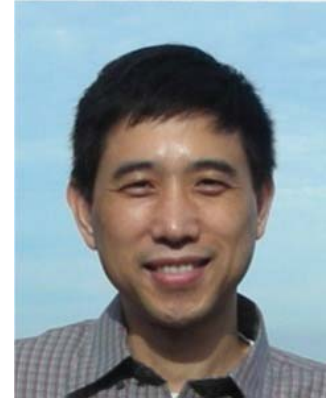
X. Sean Wang is the Endowed Dorothean Chair Professor of Computer Science at the University of Vermont (UVM), Burlington, Vermont. He obtained his PhD degree in 1992 in Computer Science from the University of Southern California, Los Angeles, California, and earned his MS and BS degrees in Computer Science earlier from Fudan University, Shanghai, China. In 1992, after his study at USC, he joined the faculty of the Information and Software Engineering Department at George Mason University (GMU), Fairfax, Virginia. He went through the ranks of Assistant Professor and Associate Professor (with Tenure) during the years at GMU. In 2003, he moved to UVM as Professor with tenure.

Dr. Wang has taught various courses at both the undergraduate and graduate level, and graduated a number of MS students. He has advised and co-advised 7 PhD dissertations to their satisfactory completion.

Dr. Wang's research areas include database systems, system support for temporal data and time series data, data mining, temporal reasoning, sensor networks, and information security. His research has been continuously supported by NSF since 1994. He is the Principal Investigator or Co-Principal Investigator of 11 sponsored research projects. He was a recipient of both the National Science Foundation's Career and Research Initiation Awards.

Dr. Wang has published widely, with over 100 publications, in the general area of database systems in journals and at conferences such as ACM Transactions on Database Systems (TODS), IEEE Transactions on Knowledge and Data Engineering (TKDE), ACM SIGMOD International Conference on Management of Data (SIGMOD), and Very Large Data Bases Conference (VLDB).

Dr. Wang has served on Program Committees (PC), as PC chairs, or in other capacities for many conference organizations. He is on the editorial boards of three technical journals, namely IEEE TKDE, World-Wide-Web Journal, and Journal of Knowledge and Information Systems.

Selected Publications:

- Peter Chapin, Christian Skalka, and X. Sean Wang. "Trust Management: Features and Foundations", ACM Computing Survey. Accepted for publication. To appear.
- Like Gao and X. Sean Wang, "Continually Evaluating Similarity-Based Pattern Queries on a Streaming Time Series", IEEE Transactions on Knowledge and Data Engineering, 17(10), October 2005, pp. 1320-1332.
- Y. Qu, C. Wang, L. Gao and X. Sean Wang, "Supporting Movement Pattern Queries in User-specified Scales," IEEE Transaction on Knowledge and Data Engineering, 15(1), pp 26-42, 2003.
- C. Bettini, X. Sean Wang and S. Jajodia, "Solving Multi-Granularity Temporal Constraint Networks," in Artificial Intelligence: an International Journal, Elsevier, 140(1-2), pp 107-152, September 2002.
- X. Sean Wang, C. Bettini, A. Brodsky and S. Jajodia, "Logical Design for Temporal Databases with Multiple Granularities," ACM Transactions on Database Systems, Vol 22, pp. 115-170, 1997.

Current Research Grants:

- PI. NSF: "A Context-Aware Approach to the Design and Evaluation of Privacy Preservation Techniques in Location-Based Services." 2007 - 2010.

- PI. NSF: "Privacy-Aware Information Release Control." 2004 - 2008.

- Co-PI. NSF: "A Framework for Optimal Approximate Query Evaluation based on Workload Forecasting." PI: Byung S. Lee. 2004 - 2008.

- Co-PI.NSF: "Controlled Release of Information Based on Contents." PI Sushil Jajodia, GMU. 2003 -2008.