

Prasenjit Mitra

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Research Interests

Information Integration and Visualization, Knowledge Base and Database Systems,
Knowledge Discovery and Data Mining, Semantic Web, Data Security

Professional Preparation

- Stanford University, Electrical Engineering, Ph.D., 1998–2004
- The University of Texas at Austin, Computer Science, M.S., 1993–1994
- Indian Institute of Technology, Kharagpur, Computer Science and Engineering,
B.Tech.(Hons.), 1989–1993

Appointments

- Assistant Professor (tenure-track), School of Information Sciences and Technology and
Department of Computer Science, The Pennsylvania State Univ., 2003–Present
- Senior Software Engineer (part-time), DBWizards, Menlo Park, CA, 2002
- Senior Software Engineer (part-time), Narus, Inc., Palo Alto, CA, 2001-2002
- Research Assistant, Dept. of Computer Science, Stanford University, 1999–2003
- Senior Member of Technical Staff, Oracle Corp., Redwood Shores, CA, 1995–2000
- Research Assistant, The University of Texas at Austin, 1994
- Teaching Assistant, The University of Texas at Austin, 1993-1994
- Instructor, Mahila Samity Polytechnic Institute, ONGC, India, 1992
- Summer Intern, Oil and Natural Gas Corporation, India, 1992
- Summer Intern, Natl. Ctr. of Knowledge Based Computing, Indian Stat. Inst., 1991

Professional Activities

- Program Committee Member:
 - Wkshp. on Semantic Integration, 2nd Int. Semantic Web Conf. (ISWC-03), FL, 2003.
 - IEEE International Conference on Service-Oriented Computing, (SCC-05), FL, 2005.
 - 7th ACM Int. Workshop on Web Information and Data Management (WIDM 2005)
- Tech. Committee Member of Int. Assoc. of Science and Technology for Development

A Selection of Related Publications

All publications are available at: <http://www.personal.psu.edu/faculty/p/u/pum10/>

1. [Sandip Debnath](#), Prasenjit Mitra, [Nirmal Pal](#), [C. Lee Giles](#): Automatic Identification of Informative Sections of Web Pages. [IEEE Transactions Knowledge Data Engineering \(TKDE\) 17\(9\)](#): 1233-1246 (2005)
2. Jaewoo Kang, Tae Sik Han, Dongwon Lee, and Prasenjit Mitra. Establishing value mappings using statistical models and user feedback. In proceedings of the 14th ACM Conf. on Information and Knowledge Management (CIKM), 31st Oct.-6th Nov., 2005

3. Prasenjit Mitra, Natasha N. Noy, A. R. Jaiswal. Ontology Mapping Discovery with Uncertainty. In proc. of the Fourth International Semantic Web Conference (ISWC). Galway, Ireland, November, 2005
4. Byung-Won On, Dongwon Lee, Jaewoo Kang, Prasenjit Mitra, Comparative Study of Name Disambiguation Problem using a Scalable Blocking-based Framework, In proc. of the fifth ACM/IEEE Joint Conf. on Digital Libraries (JCDL), Denver, Colorado, USA, June 7-11 2005
5. Sandip Debnath, Prasenjit Mitra, C. Lee Giles. Automatic Extraction of Informative Blocks from Webpages, In proc. of the 20th Annual ACM Symposium on Applied Computing (SAC), Special Track on Web Technologies and Applications, New Mexico, 13-17 March 2005
6. Sandip Debnath, Prasenjit Mitra, C. Lee Giles. Identifying Content Blocks from Web Documents, In proc. of the 15th International Symposium on Methodologies for Intelligent Systems (ISMIS), Saratoga Springs, New York, May 25-28, 2005
7. F. Afrati, C. Li, P. Mitra. "On Containment of Conjunctive Queries with Arithmetic Comparisons." In proc. of the 9th Int. Conf. on Extending Database Tech. (EDBT), 2004.
8. F. Afrati, C. Li, and P. Mitra. "Answering Queries Using Views with Arithmetic Comparisons." In proc. of the 21st ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems (PODS), 2002.
9. Prasenjit Mitra, Gio Wiederhold. An Algebra for Semantic Interoperability of Information Sources, International Journal of Computational Bioinformatics and Bioengineering, 2002.
10. P. Mitra, and G. Wiederhold. "Resolving Terminological Heterogeneity in Ontologies." In proc. of the Workshop on Ontologies and Semantic Interoperability at the 15th European Conference on Artificial Intelligence (ECAI), 2002.
11. P. Mitra, M. Kersten and G. Wiederhold. "A Graph-Oriented Model for Articulation of Ontology Interdependencies." In proc. of the 7th International Conf. On Extending Database Technology (EDBT), 2000
12. Stefan Decker, Prasenjit Mitra, Sergey Melnik, Framework for the Semantic Web: An RDF Tutorial. IEEE Internet Computing Nov/Dec 2000, Vol. 4, No. 6.
13. Stefan Decker, Jan Jannink, Sergey Melnik, Prasenjit Mitra, Steffen Staab, Rudi Studer, Gio Wiederhold, An Information Food Chain for Advanced Applications on the WWW, In proc. of the 4th European Conf. on Research & Advanced Tech. for Digital Libraries, (ECDL), Lisbon, 2000.
14. P. Mitra, G. Wiederhold and J. Jannink. "Semi-automatic Integration of Knowledge Sources." In proc. of the 2nd International Conf. on Information Fusion (FUSION), 1999.

Teaching Activities

- Proposed and implemented a "Database Theme Track" for senior undergraduate students at the School of IST at Penn State University. Includes at least three new courses dealing with advanced database systems, digital libraries, information retrieval on the Internet, and data security.
- Developed and taught courses:
 - IST 220: Telecommunications and Networking
 - IST 402: Emerging Topics in Database Systems
- Incorporated problem-based learning in courses taught