

CURRICULUM VITAE OF DR. ANIRBAN MONDAL

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Research Interests (areas where published)

- Mobile Data Management
- GRID Data Management
- P2P Data Management
- Spatial Databases and GIS
- Indexing and Load-balancing
- DataBanking

Academic Honors

- Japan Society for Promotion of Science (JSPS) Fellowship Award from September 2003 to September 2005
- National University of Singapore Research Scholarship from December 1998 to August 2002.
- Conversion of candidature from MS to Ph.D. during January 2000.

Educational Qualifications

2003 Ph.D. Computer Science, Institute - National University of Singapore (NUS), Singapore.

1998 Bachelor of Technology (with Honours) in Computer Science and Engineering Institute - Indian Institute of Technology (IIT), Kharagpur, INDIA

Career Summary

August 2002 to NOW Post-doctoral Researcher, Kitsuregawa Laboratory, Institute of Industrial Science, University of Tokyo, JAPAN.

December 1998 to August 2002 Ph.D. student at the National University of Singapore (NUS), Singapore. (Conversion of candidature from MS to Ph.D. was during January 2000.)

July 1998 to mid-December 1998 Software engineer at the Vedika Software Private Limited, which is a financial software company in Calcutta, INDIA.

May 1994 to June 1998 Undergraduate student at the Indian Institute of Technology (IIT), Kharagpur, INDIA.

Visiting Scholar

2000 (June/July) Technische Univeristat at Munich (TUM), invited by Professor Rudolf Bayer.

Scholarships

December 1998 to August 2002 National University of Singapore Research Scholarship

Research Grants (Funded only)

2003-2005 Japanese Society for Promotion of Science (JSPS) 2.4 million yen

2002-2006 Travel support from Institute of Industrial Science, University of Tokyo for presenting papers at several international/domestic conferences and workshops.

International Research Collaborators (Past and Present)

- Masaru Kitsuregawa (University of Tokyo, Japan)
- Beng Chin Ooi (National University of Singapore)
- Kian-Lee Tan (National University of Singapore)
- Sanjay Kumar Madria (University of Missouri-Rolla, USA)
- Mukesh Mohania (IBM Research Lab, India)
- Pankaj Garg (INTEL Technologies, JAPAN)

Students Graduated as Lead Supervisor

- Yi Lifu, MS Thesis, 2004

Keynote/Invited Talks in Conferences/Workshops

2006 "**Privacy, Security and Trust in P2P environments: A Perspective.**" International Workshop on P2P Data Management, Security and Trust -- PDMST 2006

2005 "**Effective Dynamic Replication in Wide-Area Network Environments: A Perspective.**" International Workshop on High Availability of Distributed Systems -- HADIS 2005

2005 "**DataBank: A Blueprint for efficient privacy-preserving personalized user data management worldwide.**" International Conference on Management of Data -- COMADb, Industrial Track, 2005

List of publications

- 15 2007 **Anirban Mondal, Sanjay Kumar Madria and Masaru Kitsuregawa** "ABIDE: A Bid-based Economic Incentive Model for Enticing Non-cooperative Peers in Mobile-P2P Networks." **Proceedings of the International Conference on Database Systems for Advanced Applications -- DASFAA 2007**
- 14 2006 **Anirban Mondal, Sanjay Kumar Madria and Masaru Kitsuregawa** "CADRE: A Collaborative replica allocation and deallocation approach for Mobile-P2P Networks." **Proceedings of the International Database Engineering & Applications Symposium -- IDEAS 2006**
- 13 2006 **Anirban Mondal, Sanjay Kumar Madria and Masaru Kitsuregawa** "EcoRep: An Economic Model for Efficient Dynamic Replication in Mobile-P2P networks." **Proceedings of the International Conference on Management of Data, COMAD 2006**
- 12 2006 **Anirban Mondal, Sanjay Kumar Madria and Masaru Kitsuregawa** "CLEAR: An Efficient Context and Location-based Dynamic Replication Scheme for Mobile-P2P Networks." **Proceedings of the International Conference on Database and Expert Systems Applications - DEXA 2006**
- 11 2006 **Anirban Mondal and Masaru Kitsuregawa** "Privacy, Security and Trust in P2P environments: A Perspective (Invited talk)." **Proceedings of the International Workshop on P2P Data Management, Security and Trust PDMST 2006**
- 10 2005 **Anirban Mondal, Pankaj Garg and Masaru Kitsuregawa** "DataBank: A Blueprint for efficient privacy-preserving personalized user data management worldwide (Invited talk)." **Proceedings of the International Conference on Management of Data (COMADb), Industrial Track, 2005**
- 9 2005 **Anirban Mondal and Masaru Kitsuregawa** "Effective Dynamic Replication in Wide-Area Network Environments: A Perspective (Invited talk) ." **Proceedings of the International Workshop on High Availability of Distributed Systems HADIS 2005**
- 8 2005 **Anirban Mondal, Anthony K. H. Tung and Masaru Kitsuregawa** "kNR-tree: A novel R-tree-based index for facilitating Spatial Window Queries on any k relations among N spatial relations in Mobile environments." **(Short paper) Proceedings of the International Conference on Mobile Data Management MDM 2005**
- 7 2005 **Bin Cui, Anirban Mondal, Jialie Shen, Gao Cong and Kian-Lee Tan** "On Effective E-mail Classification via Neural Networks." **Proceedings of the International Conference on Database and Expert Systems Applications - DEXA 2005**
- 6 2004 **Anirban Mondal, Yi Lifu and Masaru Kitsuregawa** "On Improving the

Performance Dependability of Unstructured P2P Systems via Replication."
**Proceedings of the International Conference on Database and Expert
Systems Applications - DEXA 2004**

- 5 **2004** **Anirban Mondal and Masaru Kitsuregawa** "Load-Balancing Remote Spatial Join Queries in a Spatial GRID." **Proceedings of Conference on Conceptual Modelling -- ER 2004**
- 4 **2004** **Anirban Mondal, Yi Lifu and Masaru Kitsuregawa** "P2PR-Tree: An R-Tree-Based Spatial Index for Peer-to-Peer Environments." **Proceedings of the International EDBT Workshop on P2P and Databases -- P2PDB 2004**
- 3 **2003** **Anirban Mondal, Kazuo Goda and Masaru Kitsuregawa** "Effective Load-Balancing via Migration and Replication in Spatial GRIDs." **Proceedings of the International Conference on Database and Expert Systems Applications - DEXA 2003**
- 2 **2001** **Anirban Mondal, Masaru Kitsuregawa, Beng Chin Ooi and Kian Lee Tan,** "R-tree-based Data Migration and Self-Tuning Strategies in Shared-Nothing Spatial Databases." **Proceedings of ACM International Symposium on Advances in Geographic Information Systems -- ACM GIS 2001**
- 1 **2000** **Mong Li Lee, Masaru Kitsuregawa, Beng Chin Ooi, Kian Lee Tan and Anirban Mondal** "Towards Self-Tuning Data Placement in Parallel Database Systems" **Proceedings of the International Conference on Management of Data -- SIGMOD 2000**

Professional and Academic Services

Journal Reviewer during 2003-2006:

IEEE TKDE

VLDB Journal

Journal of Parallel and Distributed Computing

IEEE Transactions on Computers

IEEE Journal on Selected Areas in Communications, Special Issue on Peer-to-Peer Communications and Applications (IEEE JSAC-P2P)

Book Chapters' Reviewer during 2006

BOOK TITLE: Intelligent Music Information Systems: Tools and Methodologies

Program Committee Chair/Co-chair

- 2007** International Workshop on data management in Global data Repositories (GRep'07) --DEXA Workshop
- 2007** International Workshop on P2P data Management, Security and Trust (PDMST'07) – DEXA Workshop
- 2006** International Workshop on data management in Global data Repositories (GRep'06) --DEXA Workshop
- 2006** International Workshop on P2P data Management, Security and Trust (PDMST'06) – DEXA Workshop
- 2005** International Workshop on data management in Global data Repositories (GRep'05) --DEXA Workshop
- 2005** International Workshop on P2P data Management, Security and Trust (PDMST'05) – DEXA Workshop

Program Committee Member in International Conferences

- 2007** International Conference on Database Systems for Advanced Applications – DASFAA'07
- 2007** Euro-American Conference on Telematics and Information Systems -- EATIS'07
- 2006** International Conference on Information Integration and Web-based Applications & Services – iiWAS'06
- 2006** Euro-American Conference on Telematics and Information Systems -- EATIS'06
- 2005** International Conference on Database Systems for Advanced Applications – DASFAA'05
- 2005** International Conference on Distributed Computing & Internet Technology – ICDCIT'05
- 2004** International Conference on Data Warehousing and Knowledge Discovery – DAWAK'04

Program Committee Member in International Workshops

- 2007** International ICDE Workshop on Privacy Data Management – PDM'07

- 2007** International DEXA Workshop on Web Semantics – WebS’07
- 2006** International ICDE Workshop on Privacy Data Management – PDM’06
- 2006** International DEXA Workshop on High Availability of Distributed Systems -- HADIS’06
- 2006** International iiWAS Workshop on Trustworthy Ubiquitous Computing – TwUC’06
- 2006** International DEXA Workshop on Web Semantics – WebS’06
- 2006** International Workshop on Dependable and Sustainable Peer-to-Peer Systems – DAS-P2P’06
- 2005** International DEXA Workshop on Web Semantics – WebS’05
- 2005** International DEXA Workshop on High Availability of Distributed Systems -- HADIS’05

References:

References will be provided upon request.