

BIJIT HORE

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Areas of Research

Privacy and disclosure control in large data-centric applications, pervasive computing, database management, data mining, machine learning, graph theory & efficient algorithm design in general.

Education

(2000 - 2007) **Ph.D., Information & Computer Science**, (March 2007)
University of California, Irvine

(2000 - 2003) **M.S., Information & Computer Science**
University of California, Irvine.

(1997 - 1999) **M.Sc., Applied Statistics & Informatics**
Indian Institute of Technology (IIT), Bombay.

(1994 - 1997) **B.Sc. (Honors), Electronics**,
Delhi University, New Delhi.

Work Experience

(October 2007 – Present) **Associate Specialist (post-doctoral)**, RESCUE project, CALIT2 & School of Information & Computer Science, UCI.

(May 2007 – September 2007) **Assistant Specialist (post-doctoral)**, RESCUE project, CALIT2 & School of Information & Computer Science, UCI.

(Sept 2001 – March 2007) **Research Assistant**, Database research group, School of Information & Computer Science, UCI.

(August 1999 – June 2000) **Project research assistant**, IIT Bombay, department of mathematics. Implemented graph theoretic algorithms for problems arising in network flow optimization and net-list partitioning in VLSI design.

Publications

Conference

- Daniel Massaguer, Bijit Hore, Mamadou H. Diallo, Sharad Mehrotra, Nalini Venkatasubramanian, "*Middleware for Pervasive Spaces: Balancing Privacy and Utility*" (MIDDLEWARE 2009).
- Hojjat Jafarpour, Bijit Hore, Sharad Mehrotra, Nalini Venkatasubramanian, "*CCD: Efficient Customized Content Dissemination in Distributed Publish/Subscribe*" (MIDDLEWARE 2009).
- Bijit Hore, Jehan Wickramasuriya, Sharad Mehrotra, Nalini Venkatasubramanian, Daniel Massaguer, "*Privacy-preserving Event Detection for Pervasive Spaces*" (PERCOM 2009).
- Hojjat Jafarpour, Bijit Hore, Sharad Mehrotra, Nalini Venkatasubramanian, "*Subscription Subsumption Evaluation for Content-based Publish/Subscribe Systems*" (MIDDLEWARE 2008).

- Ram Hariharan, Bijit Hore, Sharad Mehrotra, *“Discovering GIS Sources on the Web using Summaries”* (JCDL 2008).
 - Ronen Vaisenberg, Shengyue Ji, Bijit Hore, Sharad Mehrotra, Nalini Venkatasubramanian, *“Exploiting Semantics in Video Event Detection”* (MMCN 2008).
 - Bijit Hore, Ravi Chandra Jammalamadaka, Sharad Mehrotra, *“Flexible Anonymization for Privacy Preserving Data Publishing: A Systematic Search based Approach”* (SDM 2007).
 - Bijit Hore, Hojjat Jafarpour, Ramesh Jain, Shengyue Ji, Sharad Mehrotra, Nalini Venkatasubramanian, Utz Westermann, *“Design and Implementation of a Middleware for Sentient Spaces”* (ISI, 2007).
 - Ramaswamy Hariharan, Bijit Hore, Sharad Mehrotra, *“Processing Spatial-Keyword Queries in Geographical Information Systems”* (SSDBM 2007).
 - Mayur Deshpande, Bo Xing, Iosif Lazaridis, Bijit Hore, Nalini Venkatasubramanian, Sharad Mehrotra, *“CREW: A Gossip-based Flash Dissemination System”* (ICDCS 2006).
 - Bijit Hore, Hakan Hacigumus, Bala Iyer, Sharad Mehrotra, *“Indexing Text Data under Space Constraints”* (CIKM 2004).
 - Bijit Hore, Sharad Mehrotra, Gene Tsudik, *“A Privacy Preserving Index for Range Queries”* (VLDB 2004).
 - Sachin Patkar, Viraj Kumar, Bijit Hore, Hardeep Kaur, *“A Graph Partitioning System for Natural Unbalanced Partitions”* (WSEAS 2002).
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- Bijit Hore, Sharad Mehrotra, Hakan Hacigumus, *“Managing and Querying Encrypted data”* (Book-title: *“Handbook of Database Security: Applications and Trends”*, to be published in 2007).
 - Bijit Hore, Hojjat Jafarpour, Ramesh Jain, Shengyue Ji, Daniel Massaguer, Sharad Mehrotra, Nalini Venkatasubramanian, Utz Westermann, *“SATware: Middleware for Sentient Spaces”* (Book-title: *“Multimodal Surveillance: Sensors, Algorithms and Systems”*, to be published in 2007).
 - Hakan Hacigumus, Bijit Hore, Bala Iyer, Sharad Mehrotra, *“Search over Encrypted Data”* (Book-title: *“Secure Data Management in Decentralized Systems”*. Springer series: *Advances in Information Security*, Vol. 33, 2007).

Book Chapter

Ph.D. thesis

Storing and Querying Data Securely in Untrusted Environments

Professional Activities

Reviewer: TWEB, TISSEC, VLDBJ, ACM COMPUTING SURVEY
 External Reviewer: ICDE 06, ICDE 07, ICDT 07, ISI 06, SDM 06,
 TODS, TWEB, KDD 07, ICISS 06, DBSEC 06, DCOSS 08, ICDE 09,
 EDBT 09.