

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

Thesis: *Storing and Querying Data Securely in Untrusted Environments*

(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

- 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).

Book Chapter

- 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).

Technical reports / Papers under submission

- Valentina Bonsi, Bijit Hore, Sharad Mehrotra, Xingbo Yu, *"Clustering Techniques for Trajectory Anonymization"*.
- Bijit Hore, Jehan Wickramasuriya, Sharad Mehrotra, Nalini Venkatasubramanian, *"Privacy Preserving Event Detection in Pervasive Spaces"*.
- Bijit Hore, Sharad Mehrotra, *"Supporting Multidimensional Range and Join Queries over Remote Encrypted Databases"*.
- Bijit Hore, Sharad Mehrotra, *"Secure Pattern-Matching Queries in the Database-As-a-Service Model"*.

Professional Activities

External Reviewer: ICDE 06, ICDE 07, ICDT 07, ISI 06, SDM 06, TODS, TWEB, KDD 07, ICISS 06, DBSEC 06, DCOSS 08.