Vibhor Rastogi

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Research Interests

Database Privacy and Security, Uncertain and Probabilistic Databases

Education

- **Current:** University of Washington, Seattle, WA
  Ph.D. student, Department of Computer Science.
- **Master's:** University of Washington, Seattle, WA.
  M.S. in Computer Science, 2005-2007
- **Bachelor's:** Indian Institute of Technology, Bombay, India.
  B.Tech. in Computer Science and Engineering, 2001-2005

Publications

1. Vibhor Rastogi, Dan Suciu, Evan Welbourne: *Access Control over Uncertain Data*, VLDB 2008, pp. 821-832
2. Abhay K. Jha, Vibhor Rastogi, Dan Suciu: *Evaluating Queries in the Presence of Soft Key Constraints*, PODS 2008, pp. 119-128
3. Vibhor Rastogi, Dan Suciu, Sungho Hong: *The boundary between Privacy and Utility in Data Publishing*, VLDB 2007, pp. 531-542
4. Vibhor Rastogi, Evan Welbourne, Travis Kriplean, Nodira Khoussainova, Magdalena Balazinska, Gaetano Borriello, Dan Suciu, Tadayoshi Kohno: *Expressing Privacy Policies using Authorization Views*, UbiPriv 2007 (International Workshop on Privacy in UbiComp), pp. 385-390
5. Travis Kriplean, Evan Welbourne, Nodira Khoussainova, Vibhor Rastogi, Magdalena Balazinska, Gaetano Borriello, Dan Suciu, Tadayoshi Kohno: *Physical Access Control for Captured RFID Data*, IEEE Pervasive Computing 2007

Research Experience

- **Entity Matching**, Yahoo! Research
  Developed techniques for large-scale Entity Matching.
  Mentors: Nilesh Dalvi, Minos Garofalaikas, Yahoo! Research
- **RFID Ecosystem**, University of Washington
  Investigated privacy issues in data with uncertainty.
  Adviser: Prof. Dan Suciu, University of Washington
- **Privacy Preserving Data Publishing**, University of Washington, 2006
  Developed results to understand the privacy utility tradeoff in data publishing
  Adviser: Prof. Dan Suciu, University of Washington
- **Trust Networks for Personalized Ranking**, MSN Search Labs, Summer 2006
  Developed, implemented and evaluated trust propagation algorithms over social networks
  Adviser: Dr. Rakesh Agrawal, MSN Search Labs
- **Decomposition based Model Checking**, IIT Bombay, 2005
  Developed graph based decomposition techniques for efficient reachability analysis
  Adviser: Prof. Supratik Chakraborty, IIT Bombay

Talks

1. *Access Control over Uncertain Data*, Given at VLDB, Auckland, New Zealand in September 2008.
2. *Privacy against Attackers with a Bounded Prior*, Given at IBM Almaden in July 2008.
3. *Privacy Utility Tradeoff in Data Publishing*, Given at the DIMACS Workshop on Data Privacy, Rutgers University, in Feb 2008.
4. *The boundary between Privacy and Utility in Data Publishing*, Given at VLDB, Vienna, Austria in September 2007.
5. *Expressing Privacy Policies using Authorization Views*, Given at UbiPriv, Innsbruck, Austria in September 2007.

Past Academic Honors

- 2001: Was selected among the top thirty students in the Indian National Physics Olympiad (INPhO), and attended a 25-day camp for training and selection of the Indian contingent to the International Physics Olympiad (IPhO). Awarded the NSEP Gold medal for this achievement.
- 2001: In the Joint Entrance Examination for securing admission to the IIT, was placed 69^{th} in the country among approximately 100,000 students who took the examination.
- 2001: Ranked 70^{th} among approximately 60,000 examinees in Roorkee Entrance Examination.
- 2000: Represented Mumbai region in the Indian National Mathematics Olympiad. Ranked fourth among the thirty selected.
- 1999: Awarded Government of India merit scholarship (National Talent Search Examination)

Computer Skills

- **Languages Proficient in**: C, C++, Java, Perl, JDBC, Postgres and SQL Server.
- **Operating Systems**: Linux, Windows.

Extra-curricular activities

- Captain of a cricket team of University of Washington students in Seattle's cricket league.
- Represented the hostel in Cricket and Tennis at IIT Bombay.