

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
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Publications

1. Michael Hay, Vibhor Rastogi, Gerome Miklau, Dan Suciu: *Boosting the Accuracy of Differentially-Private Queries Through Consistency*, VLDB 2010, to appear.
 2. Vibhor Rastogi, Michael Hay, Gerome Miklau, Dan Suciu: *Relationship Privacy: Output Perturbation for Queries with Joins*, PODS 2009, pp. 107-116
 3. Vibhor Rastogi, Dan Suciu, Evan Welbourne: *Access Control over Uncertain Data*, VLDB 2008, pp. 821-832
 4. Abhay K. Jha, Vibhor Rastogi, Dan Suciu: *Evaluating Queries in the Presence of Soft Key Constraints*, PODS 2008, pp. 119-128
 5. Vibhor Rastogi, Dan Suciu, Sungho Hong: *The boundary between Privacy and Utility in Data Publishing*, VLDB 2007, pp. 531-542
 6. Katherine F. Moore, Vibhor Rastogi, Christopher Re, Dan Suciu: *Query Containment of Tier-2 Queries over a Probabilistic Database*, MUD 2009 (Management of Uncertain Databases), to appear
 7. 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
 8. 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
 9. Vibhor Rastogi, Nilesh Dalvi, Minos Garofalakis: *Large-Scale Collective Entity Matching*, In Preparation (draft available upon request)
 10. Vibhor Rastogi, Suman Nath: *Mechanisms for Differentially Private Aggregation of Distributed Time-Series Data*, In Preparation (draft available upon request)
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Research Internships

- **Private analysis of distributed time-series data**, Microsoft Research, Summer 2009
Mentor: Suman Nath, Microsoft Research
- **Entity Matching**, Yahoo! Research, Summer 2008
Mentors: Nilesh Dalvi, Minos Garofalakis, Yahoo! Research
- **Trust Networks for Personalized Ranking**, MSR Search Lab, Summer 2006
Mentor: Dr. Rakesh Agrawal, MSR Search Lab

Talks

1. *Relationship Privacy: Output Perturbation for Queries with Joins*, Given at PODS, Rhode Island in June 2009.
2. *Access Control over Uncertain Data*, Given at VLDB, Auckland, New Zealand in September 2008.
3. *Privacy against Attackers with a Bounded Prior*, Given at IBM Almaden in July 2008.
4. *Privacy Utility Tradeoff in Data Publishing*, Given at the DIMACS Workshop on Data Privacy, Rutgers University, in Feb 2008.
5. *The boundary between Privacy and Utility in Data Publishing*, Given at VLDB, Vienna, Austria in September 2007.
6. *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 (IN-PhO), 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 69th in the country among approximately 100,000 students who took the examination.
- 2001: Ranked 70th 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.
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