

Saurav Pandit

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Current Status:

Ph.D. student in Computer Science in The University of Iowa, Iowa City.

Focus: Distributed Approximation Algorithms, Wireless Ad-hoc and Sensor Networks.

Academic Background:

- B.Sc.(Hons.) and M.Sc. in Mathematics and Computing from The Indian Institute of Technology (IIT), Kharagpur.
- Qualified to the National Levels of International Physics Olympiad and International Mathematics Olympiad.

Publications/ Projects:

Spring 2009: “Algorithms for Wireless Networks via Skylines of Uniform Disks”.
Research paper submitted to APPROX 2009, University of California, Berkeley, USA.

Spring 2009: “Return of the Primal-Dual: Distributed Metric Facility Location”.
Research paper published in PODC 2009, Calgary, CANADA.

Summer 2008: “Finding Facilities Fast”. *Research paper published in ICDCN 2009, Hyderabad, INDIA. Won “Best Paper” award.*

Spring 2008: “Distributed Approximation in Wireless Ad-hoc and Sensor Networks”.
Study for the Ph.D. Comprehensive examination and current research

Summer 2006: “Distributed Spanner Construction in Doubling Metric”. *Research Paper published in OPODIS 2006, Bordeaux, FRANCE. Journal version submitted to ACM Transactions on Algorithms.*

Spring 2006: “Local Approximation Schemes in Topology Control”. *Research Paper published in PODC 2006, Denver, USA.*

Spring 2005: “Local Algorithms Providing Non-Trivial Approximation-Guarantees: A Survey”. *Study for the Ph.D. Qualifier examination.*

Summer 2004: “Robust Topology Control Protocols”. *Research Paper published in OPODIS 2004, Grenoble, FRANCE.*

Spring 2003: “A Model-based Shape Recognition Algorithm – an Image Processing problem”. *M.Sc. Thesis.*

Other Academic Services:

- Peer reviewed conference papers for PODC, OPODIS, ICDCN.
- Organizer of the Algorithms Reading Group at the Department of Computer Science, University of Iowa (Summer 2008 – present).

Work Experience:

Summer 2009 – Present: Widernet Project

Nature of Work: Java programming (Developing efficient tools for the *e-Granary*).

Summer 2008 – Fall 2008: Digital Artefacts

Nature of Work: Research and development of a distributed game architecture.

Summer 2007 – Present: Iowa Nonprofit Resource Center

Nature of Work: Graduate Assistant (ASP .NET development).

Fall 2003 – Summer 2007: Department of Computer Science, University of Iowa.

Nature of Work: Teaching Assistant.

Summer 2002: Hughes Software Systems, Guragaon, India

Nature of Work: Summer Intern (“An OSS/J-based Generic Billing System”).

Summer 2001: Institute of Mathematical Sciences, Chennai, India

Nature of Work: Summer Student (Study and research on algorithms).

1999-2001: G.S. Sanyal School of Telecommunication, IIT Kharagpur, India

Nature of Work: Research Assistant (Network programming & communication).

Development Skills:

Fluent with C, C++, Visual C#, Java. Familiar working in ASP .NET environment, SQL server programming. Won several awards in international programming contests.

Extra-Curricular Activities:

Administrative:

- Senator, UI Student Government (2004 – 2007)
 - Chair, Student Assembly Budgeting and Auditing Committee (2004 – 2006).
- Senator, UI Graduate Student Senate (2004 – 2008)
 - Bulletin Chair (2004 – 2005) and Social Chair (2005 – 2007).

Service:

- Business Committee member, UI Dance Marathon (2005 – 2006).
- Webmaster, 10000 Hours Show (2005 – 2006) and UI Graduate Student Senate (2005 – 2007).

Sports/Games:

- Represented alma mater in Soccer, Cricket and Bridge.

Social/Cultural:

- National and International awards in Fine Arts (watercolors).
- Head of the Dramatics Society in IIT Kharagpur (2001 – 2002). Various awards in Dramatics, Elocution, Quiz and Creative Writing.
- Received ORDER OF MERIT from IIT Kharagpur, the most prestigious medal awarded by the Institute in recognition of extra-ordinary contribution towards Social and Cultural Activities.