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Research Interests

Approximation Algorithms, Combinatorial Optimization, Graph Algorithms, Hardness of Approximations, Randomized Algorithms, Data Structures, Complexity Theory.

Education

Indian Institute of Technology Delhi, New Delhi, India.
Ph.D. in Computer Science and Engineering. April 1994.
Dissertation title *Multicommodity Flows and Approximation Algorithms*
Supervised by Prof. Vijay V. Vazirani

Indian Institute of Technology Delhi, New Delhi, India.
B.Tech. in Computer Science and Engineering. July 1991.

Positions Held

Amar S. Gupta Chair Professor in Decision Sciences, *Indian Institute of Technology Delhi, New Delhi.* Since March 2012.

Professor, *Computer Science and Engineering, Indian Institute of Technology Delhi, New Delhi.* Since October 2006.

Associate Professor, *Computer Science and Engineering, Indian Institute of Technology Delhi, New Delhi.* January 2000 to October 2006.

Assistant Professor, *Computer Science and Engineering, Indian Institute of Technology Delhi, New Delhi.* January 98 to December 99.

Research Scientist, *Max-Planck-Institut für Informatik, Saarbrücken.* September 96 to December 97.

Postdoctoral Fellow, *Max-Planck-Institut für Informatik, Saarbrücken.* September 94 to August 96.

Ph.D. Thesis Supervised

Approximation algorithms for scheduling, S. Anand, 2013.(co-supervisor Amit Kumar)

Approximation algorithms for covering and packing problems on paths, Arindam Pal, 2012.(co-supervisor Amit Kumar)

Scheduling to minimize flow time and other online problems, V.N. Muralidhara, 2009.(co-supervisor Sandeep Sen)

Local search heuristics for facility location problems, Vinayaka Pandit, 2005.

Lagrangian relaxation based algorithms for convex programming problems, Rohit Khandekar, 2004.

Courses Taught

Undergraduate courses on *Data Structures, Discrete Mathematics, Numerical Methods, Theory of Computing, Analysis and Design of Algorithms.*

Graduate courses on *Approximation Algorithms, Combinatorial Optimization, Mathematical Programming, Algorithmic Graph Theory, Advanced Data Structures, Algorithmic Game Theory, Operations Research.*

Awards

Teaching Excellence Award, IIT Delhi, Awarded 2012

IBM Faculty Award, IBM Research, Awarded 2006.

Young Scientist Medal, Indian National Science Academy, Awarded 2006.

Chosen by the Max-Planck-Society to head a partner group of MPI-Informatik on "Approximation algorithms", 2005-09.

Young Engineer Award, Indian National Academy of Engineering, Awarded 2005.

Career Award for Young Teachers, All-India Council for Technical Education, Awarded 2004.

Friedrich Wilhelm Bessel Research Award, Alexander von Humboldt Foundation, Awarded 2002.

Postdoctoral Fellowship, Max-Planck-Institut für Informatik. Awarded 1994-96.

University of California Regents Fellowship. Awarded 1991-92.

Professional Activities

co-Director of Indo-German Max-Planck Center for Computer Science (IMPECS), 2010-15

Program co-chair for FSTTCS 2006.

Program committee member for FSTTCS 2001, APPROX 2001, FSTTCS 2002, ISSAC 2002, WADS 2003, ISSAC 2003, APPROX 2005, WAOA 2007, STACS 2008, ESA 2008, FOCS 2008, ICALP 2009, APPROX 2011, MFCS 2011, SODA 2013