

**Dr. Homi J. Bhabha Birth Centenary Workshop
on
Introduction to Graph and Geometric Algorithms**

Satish Dhawan Auditorium, IISc Bangalore, July 15-18, 2009

Programme

July 15, 2009

8.00 AM: Breakfast and Registration

9.30 AM: Inauguration

10.15 AM: Tea Break

Algorithmic Paradigm I

10.45 PM - 11.45 PM: Prof. Venkatesh Raman, IMSc, Chennai.
(Fixed Parameter Algorithms)

11.45 PM - 12.45 AM: Swami Sarvattomananda, RKM Vivekananda University, Belur.
(Prune-and-search Technique in Geometry)

12.45 PM - 2.00 PM: Lunch Break

Algorithmic Paradigm II

2.00 PM - 3.00 PM: Prof. Sandeep Sen, IIT Delhi.
(A Short Guided Tour of Randomized Algorithms)

3.00 PM - 3.30 PM: Tea Break

3.30 PM - 4.30 PM: Prof. Daya Gaur, University of Lethbridge, Canada.
(Approximation Algorithms and Linear Programming)

4.30 PM - 5.30 PM: Prof. Partha Goswami, University of Calcutta.
(Duality Transformations in Geometry)

July 16, 2009

8.15 AM: Breakfast

Graph Theory and Algorithms I

9.15 AM - 10.15 AM: Prof. C. R. Subramanian, IMSc, Chennai.
(Randomized Algorithms for Counting Problems)

10.15 PM - 10.45 AM: Tea Break

10.45 AM - 11.45 AM: Prof. K. Murali Krishnan, NIT, Calicut.
(Graph Representation of Codes and Decoding Algorithms)

11.45 PM - 12.45 PM: Prof. Ajit A. Diwan, IIT, Mumbai.
(Topological Minors of Graphs)

12.45 PM - 2.00 PM: Lunch

Computational Geometry I

2.00 PM - 3.00 PM: Prof. Anil Maheshwari, Carleton University, Canada.
(Geometric Spanners)

3.00 PM - 3.30 PM: Tea Break

3.30 PM - 4.30 PM: Prof. Sandip Das, ISI, Kolkata.
(Geometric Facility Location Problems)

4.30 PM - 5.30 PM: Panel Discussion (Chairman: Prof. C. E. Veni Madhavan)

July 17, 2009

8.15 AM: Breakfast

Computer Graphics and Vision

9.15 AM - 10.15 AM: Prof. P. J. Narayanan, IIIT, Hyderabad.
(Graphics Processor Units: For Graphics and Beyond)

10.15 PM - 10.45 AM: Tea Break

10.45 AM - 11.45 AM: Prof. Vijay Natarajan, IISc, Bangalore.
(Scalar Field Visualization)

11.45 PM - 12.45 PM: Prof. Sudeep Sarkar, University of South Florida, USA.
(Graphs and Object Recognition)

12.45 PM - 2.00 PM: Lunch

Graph Theory and Algorithms II

2.00 PM - 3.00 PM: Prof. Surender Baswana, IIT, Kanpur.
(Algorithms for Graph Spanners - Static, Dynamic and Fault Tolerant)

3.00 PM - 3.30 PM: Tea Break

3.30 PM - 4.30 PM: Prof. N. S. Narayanaswamy, IIT, Chennai.
(Graph Classes with Interesting Structural Properties)

4.30 PM - 5.30 PM: Open Problem Session (Chairman: Prof. Ajit Diwan)

July 18, 2009

8.15 AM: Breakfast

Computational Geometry II

9.15 AM - 10.15 AM: Prof. Subhas Nandy, ISI Kolkata.
(Voronoi Diagrams)

10.15 PM - 10.45 AM: Tea Break

10:45 AM - 11.45 AM: Prof. Sudebkumar P. Pal, IIT Kharagpur.
(Geometric Data Structures)

11.45 AM - 12.45 PM: Prof. Sathish Govindarajan, IISc, Bangalore.
(Geometric Graphs)

12.45 PM - 1.00 PM: Closing Session (Chairman: Prof. Subir Ghosh)

1.00 PM - 2.00 PM: Lunch