WALCOM 2011 Conference Program

February 18, 2011	
8:30–9:30	**Registration**
9:30–10:30	**Invited Talk** Kurt Mehlhorn
10:30 − 11:00	**Coffee Break**
11:00–12:30	**Approximation Algorithms** Maximum Betweenness Centrality: Approximability and Tractable Cases *Martin Fink and Joachim Spoerhase* Approximation Algorithms for Minimum Chain Vertex Deletion *Sounaka Mishra, Mrinal Kumar, N. Safina Devi and Saket Saurabh* Oblivious Buy-at-Bulk in Planar Graphs *Srivathsan Srinivasagopalan, Costas Busch and Sitharama Iyengar*
12:30–14:00	**Lunch**
14:00–15:30	**Hardness** The complexity of acyclic subhypergraph problems *David Duris and Yann Strozecki* Inapproximability of b-Matching in k-uniform Hypergraphs *Mourad El Ouali, Antje Fretwurst, Volkmar Sauerland and Anand Srivastav* k-Level Crossing Minimization is NP-Hard for Trees *Martin Harrigan and Patrick Healy*
15:30–16:00	**Coffee Break**
16:00–17:00	**Algorithm Engineering** Efficient Computation of Time-Dependent Centralities in Air Transportation Networks *Annabell Berger, Matthias Mller-Hannemann, Steffen Rechner* *and Alexander Zock* Analysis of Gauss-Sieve for Solving the Shortest Vector Problem in Lattices *Michael Schneider*

February 19, 2011	
9:30–10:30	**Invited Talk** Tamal Dey
10:30 − 11:00	**Coffee Break**
11:00–12:30	**Computational Geometry** Minimum Enclosing Circle of a Set of Fixed Points and a Mobile Point *Aritra Banik, Bhaswar Bhattacharya and Sandip Das* Efficient top-k queries for orthognal ranges *Saladi Rahul, Prosenjit Gupta, Ravi Janardan and K.S. Rajan* Range-Aggregate Queries Involving Geometric Aggregation Operations *Saladi Rahul, Ananda Swarup Das, K.S. Rajan and Kannan Srinathan*
12:30–14:00	**Lunch**
14:00–15:30	**Approximation Algorithms** Multi Cover of a Polygon Minimizing the Sum of Areas *A. Karim Abu-Affash, Paz Carmi, Matthew Katz and Gila Morgenstern* On the Discrete Unit Disk Cover Problem *Gautam Das, Robert Fraser, Alejandro Lpez-Ortiz and Bradford Nickerson* Clustering with Internal Connectedness *Neelima Gupta, Aditya Pancholi and Yogish Sabharwal*
15:30–16:00	**Coffee Break**
16:00–17:00	**String Algorithms** Hashed Patricia Trie: Efficient Longest Prefix Matching in Peer-to-Peer Systems *astian Kniesburges and Christian Scheideler* De Bruijn Sequences for the Binary Strings with Maximum Density Joe Sawada, Brett Stevens and Aaron Williams
19:00–	**Banquet Dinner**

February 20, 2011	
9:30–10:30	**Invited Talk** Ken-ichi Kawarabayashi
10:30 − 11:00	**Coffee Break**

11:00–12:30	**Graph Algorithms**
	
	A Polynomial Time Algorithm for Longest Paths in Biconvex Graphs
	   Esha Ghosh, N.S. Narayanaswamy and C. Pandu Rangan
	
	Counting Spanning Trees in Graphs using Modular Decomposition
	   Stavros Nikolopoulos, Leonidas Palios and Charis Papadopoulos
	
	On Graceful Labelings of Trees
	   Tonmoy Guha Roy, Sourabh Aryabhatta, Md. Mohsin Uddin
	      and Md. Saidur Rahman
	
	Minimum-Layer Drawings of Trees
	   Debajyoti Mondal, Jawaherul Alam and Md. Saidur Rahman

13:00–14:30	**Lunch**