

Seventh International Workshop on Algorithms and Computation

Indian Institute of Technology, Kharagpur

14-16 February 2013

Program

Time	Day 1: February 14, 2013 (Thursday)
9.00 hr.– 9.30 hr.	Registration and Inauguration
	Session I: Invited Talk I
9.30 hr.– 10.30 hr.	Nicola Santoro: <i>Mobility and Computations: Open Research Directions</i>
10.30 hr.– 11.00 hr.	Tea
	Session II: Computational Geometry I
11.00 hr.– 11.30 hr.	A. Kroeller, M. Moeini and C. Schmidt: <i>A Novel Efficient Approach for Solving the Art Gallery Problem</i>
11.30 hr.– 12.00 hr.	J. Babu, A. Biniiaz, A. Maheshwari and M. Smid: <i>Fixed-Orientation Equilateral Triangle Matching of Point Sets</i>
12.00 hr.– 12.30 hr.	S. Fekete, S. Rex and C. Schmidt: <i>Online Exploration and Triangulation in Orthogonal Polygonal Regions</i>
12.30 hr.– 13.00 hr.	S. Fekete, J.-M. Reinhardt and N. Schweer: <i>A Competitive Strategy for Distance-Aware Online Shape Allocation</i>
13.00 hr.– 14.00 hr.	Lunch
	Session III: Approximation and Randomized Algorithms I
14.00 hr.– 14.30 hr.	R. Aschner, M. Katz, G. Morgenstern and Y. Yuditsky: <i>Approximation Schemes for Covering and Packing</i>
14.30 hr.– 15.00 hr.	M. El Ouali, A. Srivastav and H. Fohlin: <i>A Randomised Approximation Algorithm for the Hitting Set Problem</i>
15.00 hr.– 15.30 hr.	B. Nicolas, A. Giannakos, G. Lucarelli, I. Milis and V. Paschos: <i>Exact and approximation algorithms for densest k-subgraph</i>
15.30 hr.– 16.00 hr.	Tea
	Session IV: Parallel and Distributed computing
16.00 hr.– 16.30 hr.	P. Srimani and W. Goddard: <i>Daemon Conversions in Distributed Self-Stabilizing Algorithms</i>
16.30 hr.– 17.00 hr.	F. Claude, R. Dorrigiv, S. Kamali, A. López-Ortiz, P. Pralat, J. Romero, A. Salinger and D. Seco: <i>Broadcasting in Conflict-Aware Multi-Channel Networks</i>
17.00 hr.– 17.30 hr.	Shogo Takeuchi, Jun Kawahara, Akihiro Kishimoto and Shin-Ichi Minato: <i>Shared-Memory Parallel Frontier-Based Search</i>

Time	Day 2: February 15, 2013 (Friday)
	Session V: Graph Algorithms
9.00 hr.– 9.30 hr.	T. Brunsch, K. Cornelissen, B. Manthey and H. Röglin: <i>Smoothed Analysis of Belief Propagation for Minimum-Cost Flow and Matching</i>
9.30hr.– 10.00 hr.	J. Gao, T. Kloks and S.-H. Poon: <i>Triangle-Partitioning Edges of Planar Graphs, Toroidal Graphs and k-Planar Graphs</i>
10.00 hr.– 10.30 hr.	M. Olsen and M. Revsbaek: <i>Alliances and Bisection Width for Planar Graphs</i>
10.30 hr.– 11.00 hr.	B. Bhattacharya, S. Chakraborty, E. Iranmanesh and R. Krishnamurti: <i>The Cyclical Scheduling Problem</i>
11.00 hr.– 11.30 hr.	Tea
	Session VI: Complexity and Bounds I
11.30 hr.– 12.00 hr.	K. Uchizawa, T. Aoki, T. Ito and X. Zho: <i>Generalized Rainbow Connectivity of Graphs</i>
12.00 hr.– 12.30 hr.	P. Damaschke, Ö. Egecioglu and L. Molokov: <i>Fixed-Parameter Tractability of Error Correction in Graphical Linear Systems</i>
12.30 hr.– 13.00 hr.	T. Mishra and S. P. Pal: <i>Lower bounds for Ramsey numbers for complete bipartite and 3-uniform tripartite subgraphs</i>
13.00 hr.– 14.00 hr.	Lunch
	Session VII: Computational Geometry II
14.00 hr.– 14.30 hr.	J. Chun, T. Horiyama, T. Ito, N. Kaothanthong, H. Ono, Y. Otachi, T. Tokuyama, R. Uehara, and T. Uno: <i>Base location problems for base-monotone regions</i>
14.30 hr.– 15.00 hr.	A. S. Das, P. Gupta and K. Srinathan: <i>Counting Maximal Points in a Query Orthogonal Rectangle</i>
15.00 hr.– 15.30 hr.	S. Bandyapadhyay, A. Banik, S. Das and H. Sarkar: <i>Voronoi Game on Graphs</i>
15.30 hr.– 16.00 hr.	Tea
	Session VIII: Approximation and Randomized Algorithms II
16.00 hr.– 16.30 hr.	C. Crespelle and P. Gambette: <i>Linear-time Constant-ratio Approximation Algorithm and Tight Bounds for the Contiguity of Cographs</i>
16.30 hr.– 17.00 hr.	S. Kalyan Bera, S. Gupta, A. Kumar and S. Roy: <i>Approximation Algorithms for the Partition Vertex Cover Problem</i>
	Session IX: Invited Talk II
17.00 hr.– 18.00 hr.	Rina Panigrahy: <i>Adversarial Prediction: Lossless predictors and Fractal like Adversaries</i>

Time	Day 3: February 16, 2013 (Saturday)
	Session X: Graph Drawing
9.00 hr.– 9.30 hr.	H. R. Dehkordi, Q. Nguyen, P. Eades and S. Hong: <i>Circular Graph Drawings with Large Crossing Angles</i>
9.30hr.– 10.00 hr.	S. Durocher, D. Mondal and S. Rahman: <i>On Graphs that are not PCGs</i>
10.00 hr.– 10.30 hr.	Indhumathi Raman: <i>On embedding of certain recursive trees and stars into hypercube</i>
10.30 hr.– 11.00 hr.	M. Hasan, S. Rahman and R. Karim: <i>Box-Rectangular Drawings of Planar Graphs</i>
11.00 hr.– 11.30 hr.	Tea
	Session XI: Complexity and Bounds
11.30 hr.– 12.00 hr.	V. Raman and B. Shankar: <i>Improved fixed-parameter algorithm for the minimum weight 3-SAT problem</i>
12.00 hr.– 12.30 hr.	P. Kumar, J. Sarma and S. Sawlani: <i>On Directed Tree Realizations of Degree Sets</i>
12.30 hr.– 13.00 hr.	V. Raman, S. Saurabh and O. Suchy: <i>An FPT Algorithm for Tree Deletion Set</i>
13.00 hr.– 14.00 hr.	Closing Session and Lunch