Hungarian-Japanese Symposium on Discrete Mathematics and Its Applications

May 31—June 3, 2011
RIMS, Kyoto University

May, 31	Room 420	Room 110
09:10-10:00	**G. Y. Katona** Tight paths, cycles in hypergraphs and related problems	
10:00-10:10	***Break***	
10:10-10:35	**N. Kakimura**, K. Kawarabayashi Packing cycles of length 0 modulo *p* through prescribed vertices	**B. Engedy**, K. Friedl An improved randomized algorithm for the closest pair problem
10:35-11:00	**Z. Füredi**, Y. Kim Cycle-saturated graphs with minimum number of edges	**A. Iványi** Directed graphs with prescribed score sequences
11:00-11:25	R. P. Anstee, M. Raggi, **A. Sali** Forbidden configurations and product constructions	**K. Sejima**, T. Fukunaga, H. Nagamochi Algorithms for covering digraphs by length-bounded paths
11:25-11:50	**A. Bernáth**, Z. Király On the tractability of some natural packing, covering and partitioning problems	**A. M. S. Shrestha**, S. Tayu, S. Ueno Bandwidth of convex bipartite graphs and related graph classes
11:50-13:30	***Break***	
13:30-14:20	**K. Kawarabayashi** TSP in minor closed family of graphs	
14:20-14:30	***Break***	
14:30-14:55	**K. Ozeki** Prism hamiltonicity of 3-connected plane graphs with minimum degree at least 4	J. Szigeti, G. Gordos, **P. Laborczi** Benchmarking of GPS sources for generating traffic information
14:55-15:20	**T. Fukunaga** Approximating minimum cost source location problems with local vertex-connectivity demands	**Y. Tanaka**, S. Imahori, M. Yagiura A Lagrangian heuristic algorithm for the node capacitated in-tree packing problem
15:20-15:40	***Break***	
15:40-16:05	**T. Szkaliczki**, M. Eberhard, H. Hellwagner, L. Szobonya Knapsack problem and piece-picking algorithms for layered video streaming	Y. Kobayashi, **K. Murota**, R. Weismantel Cone superadditivity of discrete convex functions
16:05-16:30	Z. Király, **E. R. Kovács** Multi-layered video broadcast using network coding and a distributed connectivity algorithm	**R. Kápolnai**, G. Domokos Inductive generation of convex bodies
16:30-16:55	B. Dezső, **A. Jüttner**, P. Kovács, Á. Ladányi Contact center staff scheduling with various constraints	**T. Toda** Multipolytopes and their duality
17:00-18:30	***Open Problem Session***	

June, 1	Room 420	Room 110
09:10-10:00	**T. Jordán**, G. Domokos, K. Tóth Geometric sensitivity of rigid graphs **T. Jordán**, V. E. Kaszanitzky On generically affinely rigid hypergraphs	
10:00-10:10	***Break***	
10:10-10:35	H. Ito, **S. Tanigawa**, Y. Yoshida Testing algorithms for (k,l)-sparsity and (k,l)-edge-connected-orientability	**B. Keszegh**, D. Pálvölgyi Octants are cover decomposable
10:35-11:00	Z. Fekete, T. Jordán, **V. E. Kaszanitzky** Rigid two-dimensional frameworks with two coincident points	**S. Fujita** Recent progress on proper connection numbers
11:00-11:25	**P. Dóbe**, G. Domokos Combinatorial measurement of the geometric sensitivity of plane trusses	G. Simonyi, **A. Zsbán** On topological relaxations of chromatic conjectures
11:25-11:50	**A. Recski** Is this matrix singular? Part 2	
11:50-13:30	***Break***	
13:30-14:20	N. Kakimura, **K. Makino** Robust independence systems	
14:20-14:30	***Break***	
14:30-14:55	**T. Király** Degree bounded matroids and partial forest covering	
14:55-15:20	**A. Shioura** Polynomial-time approximation schemes for maximizing M♮-concave functions under budget constraints	
15:20-15:40	***Break***	
15:40-16:05	D. Erdős, **A. Frank**, K. Kun Sink-stable sets of digraphs	
16:05-16:30	A. Frank, **Cs. Király** Tree-compositions and submodular flows	
16:30-16:55	**K. Bérczi**, E. R. Kovács A note on strongly edge-disjoint arborescences	

18:00-20:00	***Banquet at Kyoto University Clock Tower Centennial Hall***

June, 2	Room 420	Room 110
09:10-10:00	**Z. Király** Approximation of maximum stable marriage	
10:00-10:10	***Break***	
10:10-10:35	T. Inoshita, R. W. Irving, K. Iwama, **S. Miyazaki**, T. Nagase Improving man-optimal stable matchings by minimum change of preference lists	Z. Á. Mann, **T. Szép** A best-first-search approach to constraint satisfaction problems
10:35-11:00	K. Cechlárová, **T. Fleiner** Room assignment, rent division and linear programming	**Z. Zombori**, P. Szeredi, G. Lukácsy Loop elimination, a sound optimisation technique for PTTP related theorem proving
11:00-11:25	T. Fleiner, **Z. Jankó** College admissions and lattices	G. De Marco, E. Kranakis, **G. Wiener** Finding majority with triple queries
11:25-11:50	T. Király, **J. Pap** Ideal set functions	**S. Tsuchiya** Rooted HIST property on planar triangulations
11:50-13:30	***Break***	
13:30-14:20	**H. Hirai** Weighted multiflows	
14:20-14:30	***Break***	
14:30-14:55	**G. Pap** A polynomial time algorithm for weighted node-disjoint S-paths	
14:55-15:20	**Y. Kobayashi**, X. Yin An algorithm for finding a maximum t-matching excluding complete partite subgraphs	
15:20-15:40	***Break***	
15:40-16:05	**I. Faragó** Matrix maximum principles and their application	
16:05-16:30	S. Iwata, **M. Takamatsu** On the Kronecker canonical form of mixed matrix pencils	
16:30-16:55	L. Csirmaz, **P. Ligeti** LP problems in secret sharing	

June, 3	Room 420
09:10-10:00	**G. Tóth** A better bound for the pair-crossing number
10:00-10:10	***Break***
10:10-10:35	P. Cheilaris, **B. Keszegh**, D. Pálvölgyi Unique-maximum and conflict-free coloring for hypergraphs and tree graphs
10:35-11:00	**Á. Tóth** On the asymptotic values of the Hall-ratio
11:00-11:25	D. Gerbner, B. Keszegh, N. Lemons, C. Palmer, D. Pálvölgyi, **B. Patkós** Saturating Sperner families
11:25-11:50	**T. Iimura**, K. Murota, A. Tamura Sperner's lemma and zero point theorems on a discrete simplex and a discrete simplotope
11:50-13:30	***Break***
13:30-13:55	**S. Kijima** Sampling from log-super/submodular distributions
13:55-14:20	Z. Á. Mann, **A. Szajkó** Asymptotic behaviour of the complexity of coloring sparse random graphs
14:20-14:30	***Break***
14:30-14:55	**N. Tokushige** Some results and problems concerning cross intersecting families of sets
14:55-15:20	**G. O. H. Katona**, G. Y. Katona, Z. Katona Most probably intersecting families of subsets