Program of HJ2007

	April 3 (Tuesday)
09:25—09:30	**Opening** [Room AB]

09:30—10:15	**Session 1-1** (invited talks) [Room AB]
	Some matroidal results inspired by electrical engineering applications
	    András Recski
	A survey of results on packing A-paths
	    Gyula Pap

11:00—11:15	Coffee Break
11:15—12:00	**Session 1-2** (invited talk) [Room AB] Zonotopes, linear programming, and the LP-Newton method Satoru Fujishige
12:00—13:30	Lunch Break

13:30—14:45	**Session 1-3-1** (contributed talks) [Room AB]
	Integral covering in perfect clutters
	    Y. Matsuoka
	λ-supermodular functions and dual packing theory
	    Z. Király
	A weighted even factor algorithm
	
	    K. Takazawa
		Session 1-3-2 (contributed talks) [Room CD]
		Generalized bounds for reconstruction of words
		    P. Ligeti and <u>P. Sziklai</u>
		Is it worth mining association rules?
		    <u>K. Buza</u> and F. Bodon
		Eigen-distribution for deriving randomized complexity of read-once Boolean functions
		    <u>C.-G. Liu</u> and K. Tanaka

14:45—15:15	Coffee Break	

15:15—16:30	**Session 1-4-1** (contributed talks) [Room AB]
	An algorithm for a super-stable roommate problem
	    <u>T. Fleiner</u>, R. W. Irving, and D. F. Manlove
	A provably efficient algorithm for the multi-criteria linear programming
	    <u>Y. Okamoto</u> and T. Uno
	Stable exchange of indivisible goods with restrictions
	    P. Biró
		Session 1-4-2 (contributed talks) [Room CD]
		Line and plane arrangements with large average diameter
		    <u>A. Deza</u> and F. Xie
		The lattice of convex geometries: an introduction to generalized shellings
		    F. Domenach and <u>M. Hachimori</u>
		Minkowski sums of polytopes relatively in general position
		    K. Fukuda and <u>C. Weibel</u>

16:30—17:00	Recognizing almost planar graphs (short talk)
	    I. Schlotter
	Watson-Crick complementarity in DNA computing (short talk)
	    J. Csima
	Railway delay management (short talk)
	    C. Megyeri
		Algorithmic aspects of modern processors (short talk)
		    F. Bodon
		Algorithmic complexity of Sperner's lemma (short talk)
		    K. Friedl

April 4 (Wednesday)	
09:30—10:15	**Session 2-1** (invited talks) [Room AB] Index minimization of differential-algebraic equations in hybrid analysis for circuit simulation <u>Satoru Iwata</u> and Mizuyo Takamatsu 3-dimensional Routing András Recski and <u>Dávid Szeszlér</u>
11:00—11:15	Coffee Break
11:15—12:00	**Session 2-2** (invited talk) [Room AB] Orientations and detachments of graphs with prescribed degrees and connectivity Satoru Iwata and <u>Tibor Jordan</u>
12:00—13:30	Lunch Break

13:30—15:10	**Session 2-3-1** (contributed talks) [Room AB]
	Computing degrees of all cofactors in mixed polynomial matrices
	  S. Iwata and <u>M. Takamatsu</u>
	Operations on M-convex functions on jump systems
	  Y. Kobayashi, K. Murota, and K. Tanaka
	The greedy algorithm for strict cg-matroids
	  Y. Sano
	A max-flow min-cut theorem and a topological representation theorem of convex geometries and antimatroids
	  M. Nakamura
		Session 2-3-2 (contributed talks) [Room CD]
		Practical issues in the implementation of graph pattern matching
		  G. Varró
		Generation of cutter paths for hard material
		  <u>S. Imahori</u>, M. Kushiya, T. Nakashima, and K. Sugihara
		Two combinatorial optimisation problems in multimedia systems
		  <u>T. Szkaliczki</u>, P. Kárpáti, and B. Goldschmidt
		LEMON: an open source software library for efficient modeling and optimization in networks
		  A. Jüttner

15:10—15:40	Coffee Break

15:40—17:20	**Session 2-4-1** (contributed talks) [Room AB]
	Leaves of spanning trees and vulnerability
	  <u>G. Salamon</u> and G. Wiener
	New 2-tough graphs without Hamilton cycle
	  <u>A. Németh</u> and G. Y. Katona
	Realizations of non-uniform oriented matroids using generalized mutation graphs
	  <u>H. Nakayama</u>, S. Moriyama, and K. Fukuda
	Truthful auctions with limited range of bids
	  <u>T. Horiyama</u>, K. Iwama, and D. Sumita
		Session 2-4-2 (contributed talks) [Room CD]
		On some zero-error problems of information theory
		  G. Simonyi
		Independent sets in bounded-degree hypergraphs
		  <u>M. M. Halldórsson</u> and E. Losievskaja
		Minimum cost single-cover source location problem on undirected networks
		  H. W. Hamacher and <u>D. R. Poetranto</u>
		The complexity of three-dimensional channel routing
		  <u>S. Tayu</u> and S. Ueno

18:00—20:00	Banquet

	April 5 (Thursday)

09:30—10:15	**Session 3-1** (invited talks) [Room AB]
	Linear time algorithm for computing crossing number
	    Ken-ichi Kawarabayashi
	Applications of Eulerian splitting-off
	    Tamás Király

11:00—11:15	Coffee Break
11:15—12:00	**Session 3-2** (invited talk) [Room AB] Rooted k-connections in digraphs via matroid intersection András Frank
12:00—13:30	Lunch Break
13:30—14:15	**Session 3-3** (invited talk) [Room AB] Even out degree orientation of a graph Mikio Kano
14:15—14:30	Coffee Break

14:30—16:00	**Session 3-4** (invited talks) [Room AB]
	Trace Functions
	    Gábor Wiener
	Forbidden inclusion patterns in families of subsets
	    Gyula O. H. Katona

16:00—16:05	**Closing** [Room AB]