# Tentative Program of HJ2003

| | January 21<br>Tuesday |
|---|---|
| 10:00—10:50 | **Opening + Session 1-1**<br>Uniquely Realizable Graphs and Connected Rigidity Matroids<br>    Tibor Jordán |
| 11:10—12:40 | **Session 1-2**<br>On the Maximum Even Factor in Weakly Symmetric Graphs<br>    Gyula Pap, László Szegő<br>Even Factors and Ear-Decompositions<br>    Gyula Pap<br>Spanning Trees with Leaf Distance at Least Four<br>    Atsushi Kaneko, Mikio Kano, Kazuhiro Suzuki<br>$m$-Path Cover of a Graph<br>    Aneta Dudek, Gyula Y. Katona, A. Paweł Wojda |
| | Lunch break |
| 14:10—15:20 | **Session 1-3**<br>Extreme Point Axioms for Closure Spaces<br>    Kazutoshi Ando<br>Matroid Representation of Clique Complexes<br>    Kenji Kashiwabara, Yoshio Okamoto, Takeaki Uno<br>Maps of Matroids with Applications<br>    András Recski |
| 15:40—16:25 | **Session 1-4**<br>Global Roundings and Semi-Balanced Colorings of Shortest-Path Hypergraphs<br>    Takeshi Tokuyama |
| 16:50—18:00 | **Session 1-5**<br>                 **Open Problem Session** |

| | January 22<br>Wednesday |
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| 9:30—10:20 | **Session 2-1**<br>Placement of Vertex Lables in a Graph Drawing<br>     Noboru Abe, Sumio Masuda, Kazuaki Yamaguchi<br>Monotone Drawings of Planar Graphs<br>     János Pach, Géza Tóth |
| 10:30—11:15 | **Session 2-2**<br>Cycle-Packing and Cycle-Partition of a Graph<br>     Hikoe Enomoto |
| 11:30—12:40 | **Session 2-3**<br>The Generalized Kaneko Theorem<br>     Jácint Szabó<br>Generalized Induced Factor Problems<br>     Zoltán Király, Jácint Szabó<br>Crossing Numbers of Three Monochromatic Trees in the Plane<br>     Atsushi Kaneko, Mikio Kano, Kazuhiro Suzuki, Shin-ichi Tokunaga |
| | Lunch break |
| 14:10—15:20 | **Session 2-4**<br>Zero-Free Intervals for Flow Polynomials of Near Cubic Graphs<br>     Bill Jackson<br>Small Forbidden Configurations IV: The 3 Rowed Case<br>     Richard Anstee, Attila Sali<br>A Coding Problem for Pairs of Subsets<br>     Gyula O. H. Katona |
| 15:40—16:25 | **Session 2-5**<br>On Some Aspects of Ramsey Theory<br>     Gábor Simonyi |
| 16:50—17:40 | **Session 2-6**<br>List Edge-Colorings of Series-Parallel Graphs<br>     Tomoya Fujino, Xiao Zhou, Takao Nishizeki<br>List Edge Multicoloring in Bounded Cyclicity Graphs<br>     Dániel Marx |
| 18:00—20:00 | **Banquet** |

| | January 23<br>Thursday |
|---|---|
| 9:30—10:20 | **Session 3-1**<br>Algorithms on Attribute Graphs for Tables<br>     Tomoe Motohashi, Kensei Tsuchida, Takeo Yaku<br>A New Algorithm for 2-Layer Manhattan Channel Routing<br>     Dávid Szeszlér |
| 10:30—11:15 | **Session 3-2**<br>New Maximum Flow Algorithms by MA Orderings and Scaling<br>     Satoru Fujishige, Shigueo Isotani |
| 11:30—12:40 | **Session 3-3**<br>On Budgeted Optimization Problems<br>     Alpár Jüttner<br>Maximum Network Flows with Concave Gains<br>     Maiko Shigeno<br>A Constrained Independent Set Problem for Matroids<br>     Tamás Fleiner, András Frank, Satoru Iwata |
| | Lunch break |
| 14:10—15:20 | **Session 3-4**<br>Optimization Problems in System-Level Synthesis<br>     Zoltán Ádám Mann, András Orbán<br>A Solution to the Liar Problem<br>     Gábor Wiener<br>Algorithms on the Web Graph<br>     Dániel Fogaras |
| 15:40—16:25 | **Session 3-5**<br>Some Results on Stable Matchings and Fixed Points<br>     Tamás Fleiner |
| 16:50—18:00 | **Session 3-6**<br>Properties on the Number of Connected Spanning Subgraphs in an Undirected Graph<br>     Peng Cheng, Shigeru Masuyama<br>Grinstead's Conjecture is True for Some Fixed $\omega(G)$'s<br>     Kenji Kashiwabara, Tadashi Sakuma<br>On Transformation of Posets with the Same Semi Bound Graphs<br>     Hiroshi Era, Kenjiro Ogawa, Morimasa Tsuchiya |

| | January 24<br>Friday |
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| 9:30—10:20 | **Session 4-1**<br>An $O(n^3)$ Time Algorithm for Obtaining the Minimum Vertex Ranking Spanning Tree on Interval Graphs<br>　　　Shin-ichi Nakayama, Shigeru Masuyama<br>Can a Hypergraph Cover Every Convex Polygon?<br>　　　Hiro Ito, Hiroshi Nagamochi |
| 10:30—11:15 | **Session 4-2**<br>Periodic Functions and Quantum Computing<br>　　　Katalin Friedl |
| 11:30—12:40 | **Session 4-3**<br>Trivially Noncontractible Edges in a Contraction Critically 5-Connected Graph<br>　　　Kiyoshi Ando<br>On the Size of Semistrong Matchings in the Hypercube<br>　　　Rita Csákány<br>Vertex-Disjoint Copies of $K_1 + (K_1 \cup K_2)$ in Graphs<br>　　　Shinya Fujita |
| | Lunch break |
| 14:10—15:20 | **Session 4-4**<br>Powers in Finite Fields<br>　　　Péter Sziklai<br>Computational Algebraic Analyses of Unimodular Integer Programming Problems<br>　　　Takayuki Ishizeki, Hiroki Nakayama, Hiroshi Imai<br>Intersection of Random Walks on Smooth Fractals<br>　　　András Telcs |
| 15:40—16:25 | **Session 4-5**<br>Computing Extreme Sets in Graphs and Its Applications<br>　　　Hiroshi Nagamochi |
| 16:50—17:40 | **Session 4-6**<br>Covering Symmetric Supermodular Functions by Uniform Hypergraphs<br>　　　Tamás Király<br>Source Location Problem with Local 3-Vertex-Connectivity Requirements<br>　　　Toshimasa Ishii, Hitoshi Fujita, Hiroshi Nagamochi<br>An Algorithm to Increase the Node-Connectivity of a Digraph<br>　　　András Frank |