

|                |                                                                                                    |                                                                                                        |
|----------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| May 27, Monday |                                                                                                    |                                                                                                        |
| 09:50          | Opening                                                                                            |                                                                                                        |
| 10:00          | <b>András Recski</b>                                                                               |                                                                                                        |
| 10:50          | Matroids and electric networks: A tribute to Masao Iri                                             |                                                                                                        |
|                | Coffee break                                                                                       |                                                                                                        |
| 11:10          | <b>Yuichi Yoshida</b>                                                                              |                                                                                                        |
| 12:00          | Submodular Laplacian                                                                               |                                                                                                        |
|                | Lunch break                                                                                        |                                                                                                        |
| 14:00          | <b>Péter Frankl</b>                                                                                |                                                                                                        |
| 14:50          | LP-type arguments in extremal set theory                                                           |                                                                                                        |
|                | Coffee break                                                                                       |                                                                                                        |
| 15:15          | <b>Richárd Palincza</b><br>The number of maximum primitive sets of integers                        | <b>Tasuku Soma</b><br>Spectral Sparsification of Hypergraphs                                           |
| 15:40          | <b>Shohei Satake</b><br>A constructive solution to a problem of ranking tournaments                | <b>Gyula Pap</b><br>Synchronized Traveling Salesman Problem                                            |
| 16:05          | <b>Attila Sali</b>                                                                                 | <b>Yutaro Yamaguchi</b>                                                                                |
| 16:30          | New bounds on Armstrong codes                                                                      | An Efficient Dijkstra-Like Algorithm for Finding a Shortest Non-zero Path in Group-Labeled Graphs      |
|                | break                                                                                              |                                                                                                        |
| 16:45          | <b>Gyula O.H. Katona</b><br>The domination number of the graph defined by two levels of the n-cube | <b>Takuro Fukunaga</b><br>Adaptive Algorithm for Finding Connected Dominating Sets in Uncertain Graphs |
| 17:10          | <b>Dániel T. Nagy</b><br>On the maximum number of copies of H in graphs with given size and order  | <b>Kitti Varga</b><br>The complexity of recognizing minimally tough graphs                             |
| 17:35          | <b>Gábor Simonyi</b>                                                                               | <b>Naoyuki Kamiyama</b>                                                                                |
| 18:00          | Hedetniemi's conjecture and Shannon capacity                                                       | A Note on Testing Substitutability of Weak Preferences                                                 |
| 18:30          | <b>Reception (Abreuboir, Mukougaoka Faculty House, 1F)</b>                                         |                                                                                                        |
| 20:30          |                                                                                                    |                                                                                                        |

| May 28, Tuesday |                                                                                                                                                          |                                                                                                                             |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 09:30           | <b>András Frank</b>                                                                                                                                      |                                                                                                                             |
| 10:20           | Discrete Decreasing Minimization                                                                                                                         |                                                                                                                             |
|                 | Coffee break                                                                                                                                             |                                                                                                                             |
| 10:45           | <b>Kazuo Murota</b><br>Discrete Convex Analysis View on Discrete Decreasing Minimization                                                                 | <b>Daniel Soltész</b><br>The growth rates of G-creating paths                                                               |
| 11:10           | <b>Akiyoshi Shioura</b><br>M-convex Function Minimization Under L1-Distance Constraint and Its Application to Dock Re-allocation in Bike Sharing Systems | <b>Carol T. Zamfirescu</b><br>Arachnoid Graphs and a Solution to a Problem of Gargano et al.                                |
| 11:35           | <b>Dávid Szeszlér</b><br>Optimality of the Greedy Algorithm in Greedoids                                                                                 | <b>Kenta Ozeki</b><br>Spanning trees with few leaves in graphs on surfaces                                                  |
| 12:00           | Lunch break                                                                                                                                              |                                                                                                                             |
| 14:00           | <b>Takanori Maehara</b>                                                                                                                                  |                                                                                                                             |
| 14:50           | Stochastic Monotone Submodular Maximization with Queries                                                                                                 |                                                                                                                             |
|                 | Coffee break                                                                                                                                             |                                                                                                                             |
| 15:15           | <b>Anthony Nixon</b><br>Pairing results for symmetric frameworks                                                                                         | <b>Kaito Fujii</b><br>An improved algorithm for the submodular secretary problem with a cardinality constraint              |
| 15:40           | <b>András Mihálykó</b><br>A new approach to redundantly rigid augmentations                                                                              | <b>Dániel Szabó</b><br>Quantum Inspired Adaptive Boosting                                                                   |
| 16:05           | <b>Csongor Gy. Csehi</b><br>Sufficient condition for almost-irreducibility of matroids, Solving an old conjecture                                        | <b>Alpár Jüttner</b><br>New Techniques To Improve Convergence of Decomposition Methods on Large Scale Optimization Problems |
| 16:30           | break                                                                                                                                                    |                                                                                                                             |
| 16:45           | <b>Péter Pál Pach</b>                                                                                                                                    |                                                                                                                             |
| 17:35           | Polynomials, Rank and Cap Sets                                                                                                                           |                                                                                                                             |

|                  |                                                                                                                                                |                                                                                                              |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| May 29, Wednesdy |                                                                                                                                                |                                                                                                              |
| 09:30            | <b>Tamás Király</b>                                                                                                                            |                                                                                                              |
| 10:20            | New developments on the approximability of Multiway Cut                                                                                        |                                                                                                              |
|                  | Coffee break                                                                                                                                   |                                                                                                              |
| 10:45            | <b>László Kabódi</b><br>A weighted QuIDD data structure                                                                                        | <b>Ryo Sako</b><br>Two Disjoint Shortest Paths Problem with Non-negative Edge Length                         |
| 11:10            | <b>Nobutaka Shimizu</b><br>The Concentration of the Average Distance of Dense Erdős-Rényi Graphs                                               | <b>Ervin Győri</b><br>Terminal-Pairability in Complete Bipartite Graphs with Non-Bipartite Demands           |
| 11:35            | <b>Péter Madarasi</b><br>A novel approach to graph isomorphism                                                                                 | <b>Motoki Ikeda</b><br>A Cost-Scaling Algorithm for Minimum Cost Node-Capacitated Multiflow Problem          |
| 12:00            | Lunch break                                                                                                                                    |                                                                                                              |
| 14:00            | <b>Viktória Kaszanitzky</b>                                                                                                                    |                                                                                                              |
| 14:50            | A Physical Zero-knowledge Proof for the Mainarizumu Puzzle                                                                                     |                                                                                                              |
|                  | Coffee break                                                                                                                                   |                                                                                                              |
| 15:15            | <b>Csaba Király</b><br>Rigid realizations of planar graphs with few locations in the plane                                                     | <b>Haruka Mizuta</b><br>Optimizing Independent Sets Under Constrained Transformations                        |
| 15:40            | <b>Tibor Jordán</b><br>Compressed frameworks and compressible graphs                                                                           | <b>Máté Gyarmati</b><br>On secret sharing on unicyclic graphs                                                |
| 16:05            | <b>Tomohito Fujii</b><br>Any Finite Distributive Lattice is Isomorphic with the Minimizer Set of an $M^{\text{natural}}$ -Concave Set Function | <b>Máté Vizer</b><br>A plurality problem with three colors and query size three                              |
| 16:30            | break                                                                                                                                          |                                                                                                              |
| 16:45            | <b>So Nakashima</b><br>Rank axiom of modular supermatroids—A connection with directional DR submodular functions                               | <b>Kei Kimura</b><br>Three-dimensional discrete tomography with restriction on height and constraint numbers |
| 17:10            | <b>Hiroshi Hirai</b><br>A Nonpositive Curvature Property of Modular Semilattices                                                               | <b>László F. Papp</b><br>Restricted optimal pebbling is NP-hard                                              |
| 17:35            | <b>Lilla Tóthmérés</b><br>The sandpile group of trinites and a canonical definition for the planar Bernardi action                             | <b>Ping Zhan</b><br>A Simple Construction of Single-Peaked Domains and Ex-ante Efficiency                    |
| 18:00            | <b>Banquet (Kadoya, Sanjo Conference Hall, B1F)</b>                                                                                            |                                                                                                              |
| 20:30            |                                                                                                                                                |                                                                                                              |

| May 30, Thursday |                                                                                  |                                                                                  |
|------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 09:30            | <b>Kristóf Bérczi</b>                                                            |                                                                                  |
| 10:20            | Complexity of packing common bases in matroids                                   |                                                                                  |
|                  | Coffee break                                                                     |                                                                                  |
| 10:45            | <b>Hidefumi Hiraishi</b>                                                         | <b>Kei Nakashima</b>                                                             |
|                  | Smallest Counterexamples for Convexity and Log-concavity of the Tutte Polynomial | Experimental Analysis on Practical Performance of Weighted Linear Matroid Parity |
| 11:10            | <b>Imre Bárány</b>                                                               | <b>Taihei Oki</b>                                                                |
|                  | An Application of the Universality Theorem for Tverberg Partitions               | Computing the Maximum Degree of Minors in Polynomial Matrices over Skew Fields   |
| 11:35            | <b>Gábor Damásdi</b>                                                             | <b>Zoltán Király</b>                                                             |
| 12:00            | Triangle areas determined by arrangements of planar lines                        | How many matchings cover the nodes of a graph?                                   |
|                  | Lunch break                                                                      |                                                                                  |
| 14:00            | <b>Kenjiro Takazawa</b>                                                          |                                                                                  |
| 14:50            | b-branchings: Branchings with High Indegree                                      |                                                                                  |
|                  | Coffee break                                                                     |                                                                                  |
| 15:15            | <b>Yu Yokoi</b>                                                                  | <b>Balázs Patkós</b>                                                             |
|                  | Equitable Partitions into Matchings and Coverings in Mixed Graphs                | Distribution of colors in Gallai-colorings                                       |
| 15:40            | <b>Mikio Kano</b>                                                                | <b>Dániel Gerbner</b>                                                            |
|                  | Fractional Factors, Component Factors and Isolated Vertex Conditions in Graphs   | On the weight of Berge-F-free hypergraphs                                        |
| 16:05            | <b>Gyula Y. Katona</b>                                                           | <b>Gábor Wiener</b>                                                              |
| 16:30            | Decomposition of a graph into two disjoint odd subgraphs                         | Minimum leaf spanning trees of 2-connected cubic multigraphs                     |