

Monday 22/8		
	ESA 1	ESA 2
08:30-09:00	Registration	
09:00-10:15	Session 1A: Online Algorithms I Chair: ?	Session 1B: Geometry I Chair: ?
09:00	Dror Rawitz and Adi Rosén: Online Budgeted Maximum Coverage	Erin Chambers, Irina Kostitsyna, Maarten Löffler and Frank Staals: Homotopy Measures for Representative Trajectories
09:25	Thomas Kesselheim and Andreas Tönnis: Think Eternally: Improved Algorithms for the Temp Secretary Problem and Extensions	Quirijn W. Bouts, Irina Kostitsyna, Marc van Kreveld, Wouter Meulemans, Willem Sonke and Kevin Verbeek: Mapping polygons to the grid with small Hausdorff and Fréchet distance
09:50	Tobias Arndt, Danijar Hafner, Thomas Kellermeier, Simon Krogmann, Armin Razmjou, Martin Krejca, Ralf Rothenberger and Tobias Friedrich: Probabilistic Routing for On-Street Parking Search	Kiril Solovey and Dan Halperin: Sampling-based bottleneck pathfinding with applications to Frechet matching
10:15-10:35	Coffee Break	
10:35-11:25	Session 2A: Clustering Chair: ?	Session 2B: Parametrized Distances Chair: ?
10:35	Pavel Kolev and Kurt Mehlhorn: A Note On Spectral Clustering	Ely Porat, Eduard Shahbazian and Roei Tov: New Parameterized Algorithms for APSP in Directed Graphs
11:00	Joshua Wang and Tim Roughgarden: The Complexity of the k-means Method	Davide Bilò, Luciano Gualà, Stefano Leucci and Guido Proietti: Compact and Fast Sensitivity Oracles for Single-Source Distances
11:25-11:30	Break	
11:30-12:30	ESA Invited Ola Svensson	
12:30-14:00	Lunch	
14:00-15:15	Session 3A: Distributed Algorithms Chair: ?	Session 3B: Exponential Algorithms Chair: ?
14:00	Moran Feldman, Moshe Tennenholtz and Omri Weinstein: Distributed Signaling Games	Jesper Nederlof: Finding Large Set Covers Faster via the Representation Method
14:25	Petra Berenbrink, Tom Friedetzky, Peter Kling, Frederik Mallmann-Trenn and Christopher Wastell: Plurality Consensus in Arbitrary Graphs: Lessons Learned from Load Balancing	Andrew Drucker, Jesper Nederlof and Rahul Santhanam: Exponential Time Paradigms Through the Polynomial Time Lens
14:50	Cameron Chalk, Eric Martinez, Robert Schweller, Luis Vega, Andrew Winslow and Tim Wylie: Optimal Staged Self-Assembly of General Shapes	Tillmann Miltzow, Lothar Narins, Yoshio Okamoto, Günter Rote, Antonis Thomas and Takeaki Uno: Approximation and Hardness of Token Swapping
15:15-15:30	Break	
15:30-16:45	Session 4A: Optimization I Chair: ?	Session 4B: Algorithmic Game Theory Chair: ?
15:30	Markus Chimani and Tilo Wiedera: An ILP-based Proof System for the Crossing Number Problem	George Christodoulou, Martin Gairing, Sotiris Nikolettseas, Christoforos Raptopoulos and Paul Spirakis: Strategic Contention Resolution with Limited Feedback
15:55	Matthias Mnich, Virginia Vassilevska Williams and Laszlo Vegh: A 7/3-Approximation for Feedback Vertex Sets in Tournaments	Xiaohui Bei, Jugal Garg, Martin Hoefer and Kurt Mehlhorn: Computing Equilibria in Markets with Budget-Additive Utilities

16:20	Riley Murray, Megan Chao and Samir Khuller: Scheduling Distributed Clusters of Parallel Machines: Primal-Dual and LP-based Approximation Algorithms	Ruta Mehta, Ioannis Panageas, Georgios Piliouras and Sadra Yazdanbod: The Complexity of Genetic Diversity
16:45-17:00		
17:00-18:15	Session 5A: Graph Matchings Chair: ?	Session 5B: Geometry II Chair: ?
17:00	Melika Abolhassani, T-H. Hubert Chan, Fei Chen, Hossein Esfandiari, Mohammadtaghi Hajiaghayi, Hamid Mahini and Xiaowei Wu: Beating Ratio 0.5 for Weighted Oblivious Matching Problems	Mikkel Abrahamsen and Bartosz Walczak: Outer Common Tangents and Nesting of Convex Hulls in Linear Time and Constant Workspace
17:25	Brian Brubach, Karthik Abinav Sankararaman, Aravind Srinivasan and Pan Xu: New Algorithms, Better Bounds, and a Novel Model for Online Stochastic Matching	Sathish Govindarajan, Rajiv Raman, Saurabh Ray and Aniket Basu Roy: Packing and Covering with Non-piercing regions
17:50	Christoph Dürr, Christian Konrad and Marc Renault: On the Power of Advice and Randomization for Online Bipartite Matching	Édouard Bonnet and Tillmann Miltzow: Parameterized Hardness of Art Gallery Problems
18:15-18:30	Break	
18:30-...	ESA business meeting / Papers & ToT awards / Reception	

Tuesday 23/8

	ESA 1	ESA 2
08:30-09:00	Registration	
09:00-10:15	Session 6A: Streaming Algorithms Chair: ?	Session 6B: FPT Hardness Chair: ?
09:00	Nathanaël François, Frederic Magniez, Michel De Rougemont and Olivier Serre: Streaming Property Testing of Visibly Pushdown Languages	Lukasz Kowalik, Juho Lauri and Arkadiusz Socala: On the fine-grained complexity of rainbow coloring
09:25	Lasse Kliemann, Christian Schielke and Anand Srivastav: A Streaming Algorithm for the Undirected Longest Path Problem	Arnab Bhattacharyya, Ameet Gaddekar, Suprovat Ghoshal and Rishi Saket: On the Hardness of Learning Sparse Parities
09:50	Michael Crouch, Andrew McGregor, Gregory Valiant and David P. Woodruff: Stochastic Streams: Sample Complexity vs. Space Complexity	Subhash Khot and Rishi Saket: Hardness of Bipartite Expansion
10:15-10:35	Coffee Break	
10:35-11:25	Session 7A: Lower Bounds Chair: ?	Session 7B: Geometry III Chair: ?
10:35	Raphael Clifford, Markus Jalsenius and Benjamin Sach: Cell-probe lower bounds for bit stream computation	Huang Lingxiao, Jian Li, Jeff Phillips and Haitao Wang: ϵ -Kernel Coresets for Stochastic Points
11:00	Guy Blelloch, Jeremy Fineman, Phillip B. Gibbons, Yan Gu and Julian Shun: Efficient Algorithms with Asymmetric Read and Write Costs	Tamal Dey, Dayu Shi and Yusu Wang: SimBa: An Efficient Tool for Approximating Rips-filtration Persistence via Simplicial Batch-collapse
11:25-11:30	Break	
11:30-12:30	WABI Invited Kiyoshi AsaiChair: ?	
12:30-14:00	Lunch	
14:00-15:15	Session 8A: Scheduling Chair: ?	Session 8B: Polynomial Time Chair: ?
14:00	Chien-Chung Huang and Sebastian Ott: A Combinatorial Approximation Algorithm for Graph Balancing with Light Hyper Edges	Jean Cardinal, John Iacono and Aurélien Ooms: Solving k-SUM using few linear queries
14:25	Guy Even, Moti Medina and Adi Rosen: A Constant Approximation Algorithm for Scheduling Packets on Line Networks	Isaac B. Goldstein, Tsvi Kopelowitz, Moshe Lewenstein and Ely Porat: How Hard is it to Find (Honest) Witnesses?
14:50	Andreas S. Schulz and José Verschae: Min-sum scheduling under precedence constraints	Matti Karppa, Petteri Kaski, Jukka Kohonen and Pádraig Ó Catháin: Explicit correlation amplifiers for finding outlier correlations in deterministic subquadratic time
15:15-15:30	Break	
15:30-16:45	Session 9A: FPT Counting Chair: ?	Session 9B: Distance Oracles Chair: ?
15:30	Radu Curticapean: Counting matchings with k unmatched vertices in planar graphs	Stephen Alstrup, Søren Dahlggaard, Mathias Bæk Tejs Knudsen and Ely Porat: Sublinear Distance Labeling
15:55	Eduard Eiben, Robert Ganian, Kustaa Kangas and Sebastian Ordyniak: Counting Linear Extensions: Parameterizations by Treewidth	Krishnendu Chatterjee, Rasmus Ibsen-Jensen and Andreas Pavlogiannis: Optimal Reachability and a Space-Time Tradeoff for Distance Queries in Constant-Treewidth Graphs

16:20-16:35	Break
16:35	ESA Test-of-Time Award
16:50	Stefan Kratsch: A randomized polynomial kernelization for Vertex Cover with a smaller parameter
17:15	Thomas Bläsius, Tobias Friedrich, Anton Krohmer and Sören Laue: Efficient Embedding of Scale-Free Graphs in the Hyperbolic Plane
17:40	Adam Kunysz: The Strongly Stable Roommates Problem
18:05	Michele Borassi and Emanuele Natale: KADABRA is an ADaptive Algorithm for Betweenness via Random Approximation
18:30	Bus to conference dinner
19:00-...	Conference Dinner (Godsbanen, downtown)

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Wednesday 24/8		
	ESA 1	ESA 2
08:30-09:00	Registration	
09:00-10:15	Session 11A: Sorting and Matching Chair: ?	Session 11B: FPT Chair: ?
09:00	Stefan Edelkamp and Armin Weiß: BlockQuicksort: How Branch Mispredictions don't affect Quicksort	Karl Bringmann, László Kozma, Shay Moran and N.S. Narayanaswamy: Hitting Set for hypergraphs of low VC-dimension
09:25	Juha Kärkkäinen and Dominik Kempa: Faster External Memory LCP Array Construction	Krzysztof Fleszar, Matthias Mních and Joachim Spoerhase: New Algorithms for Maximum Disjoint Paths Based on Tree-Likeness
09:50	Shay Golan, Tsvi Kopelowitz and Ely Porat: Streaming Pattern Matching with d Wildcards	Edouard Bonnet, Laszlo Egri and Daniel Marx: Fixed-parameter Approximability of Boolean MinCSPs
10:15-10:35	Coffee Break	
10:35-11:25	Session 12A: Optimization II Chair: ?	Session 12B: Geometry IV Chair: ?
10:35	Ralf Borndörfer, Heide Hoppmann and Marika Karbstein: Separation of Cycle Inequalities for the Periodic Timetabling Problem	Huck Bennett, Daniel Dadush and Noah Stephens-Davidowitz: On the Lattice Distortion Problem
11:00	Alantha Newman, Heiko Roeglin and Johanna Seif: The Alternating Stock Size Problem and the Gasoline Puzzle	Haitao Wang: On the Geodesic Centers of Polygonal Domains
11:25-11:30	Break	
11:30-12:30	ESA Invited Ola Svensson	
12:30-14:00	Lunch	
14:00-15:15	Session 13A: Online Algorithms II Chair: ?	Session 13B: Graph Classes Chair: ?
14:00	Marcin Bienkowski, Martin Böhm, Jaroslaw Byrka, Marek Chrobak, Christoph Dürr, Lukáš Folwarczny, Łukasz Jeż, Jiří Sgall, Nguyen Kim Thang and Pavel Veselý: Online Algorithms for Multi-Level Aggregation	Hiro Ito: Every property is testable on a natural class of scale-free multigraphs
14:25	Chris Schwiegelshohn and Uwe Schwiegelshohn: The Power of Migration for Online Slack Scheduling	Daniel Neuen: Graph Isomorphism for unit square graphs
14:50	Giorgio Lucarelli, Kim Thang Nguyen, Abhinav Srivastav and Denis Trystram: Online Non-preemptive Scheduling in a Resource Augmentation Model based on Duality	Thomas Bläsius, Tobias Friedrich and Anton Krohmer. Hyperbolic Random Graphs: Separators and Treewidth
15:15-15:30	Break	
15:30-17:10	Session 14A: Dynamic Algorithms Chair: ?	Session 14B: Geometry V Chair: ?
15:30	Casper Kejlberg-Rasmussen, Tsvi Kopelowitz, Seth Pettie and Mikkel Thorup: Faster Worst Case Deterministic Dynamic Connectivity	Clément Maria and Jonathan Spreer: Admissible colourings of 3-manifold triangulations for Turaev-Viro type invariants
15:55	Monika Henzinger and Stefan Neumann: Incremental and Fully Dynamic Subgraph Connectivity For Emergency Planning	Moritz Baum, Thomas Bläsius, Andreas Gemsa, Ignaz Rutter and Franziska Wegner: Scalable Exact Visualization of Isocontours in Road Networks via Minimum-Link Paths
16:20	Gramoz Goranci, Monika Henzinger and Mikkel Thorup: Incremental Exact Min-Cut in Poly-logarithmic	Jian Li and Wei Zhan: Almost All Even Yao-Yao Graphs Are Spanners