

Wednesday, June 12th

08:30-	Registration desk opens
09:00-09:10	Welcome
09:10-10:30	Session 1: Parameterized Algorithms Chair: <i>Blair Sullivan</i>
09:10-09:30	Benjamin Merlin Bumpus, Bart M. P. Jansen and Jaime Venne. <i>Fixed-Parameter Tractable Certified Algorithms for Covering and Dominating in Planar Graphs and Beyond</i>
09:30-09:50	Yota Otachi, Akira Suzuki and Yuma Tamura. <i>Finding Induced Subgraphs from Graphs with Small Mim-Width</i>
09:50-10:10	Fedor Fomin, Petr Golovach, Tuukka Korhonen and Saket Saurabh. <i>Stability in Graphs with Matroid Constraints</i>
10:10-10:30	Jesse Beisegel, Nina Chiarelli, Ekkehard Köhler, Martin Milanič, Peter Muršič and Robert Scheffler. <i>The Simultaneous Interval Number: a New Width Parameter That Measures the Similarity to Interval Graphs</i>
10:30-11:00	Coffee
11:00-11:50	Session 2: Invited Talk (Karen Aardal) Chair: <i>Hans Bodlaender</i>
11:00-11:50	Karen Aardal. <i>Machine-learning augmented enumeration for integer optimization, and beyond</i>
11:50-12:30	Session 3: Optimization Chair: <i>Kazuo Iwama</i>
11:50-12:10	Mohammad Salavatipour and Lijiangnan Tian. <i>Approximation Algorithms for the Airport and Railway Problem</i>
12:10-12:30	Zachary Friggstad and Hao Sun. <i>A Logarithmic Integrality Gap for Generalizations of Quasi-Bipartite Instances of Directed Steiner Tree</i>
12:30-13:40	Lunch
13:40-15:00	Session 4: Computational Geometry Chair: <i>Yushi Uno</i>
13:40-14:00	Lotte Blank and Anne Driemel. <i>Range Reporting for Time Series via Rectangle Stabbing</i>
14:00-14:20	Irina Kostitsyna, Tim Ophelders, Irene Parada, Tom Peters, Willem Sonke and Bettina Speckmann. <i>Optimal in-Place Compaction of Sliding Cubes</i>
14:20-14:40	Kevin Buchin, Maike Buchin, Joachim Gudmundsson, Lukas Plätz, Lea Thiel and Sampson Wong. <i>L-Budget Clustering of Curves</i>
14:40-15:00	Auguste Gezalyan, Soo Kim, Carlos Lopez, Daniel Skora, Zofia Stefankovic and David Mount. <i>Delaunay Triangulations in the Hilbert Metric</i>
15:00-15:30	Coffee
15:30-16:30	Session 5: Data Structures / Parameterized Algorithms Chair: <i>Kazuo Iwama</i>
15:30-15:50	Gerth Stølting Brodal and Sebastian Wild. <i>Deterministic Cache-Oblivious Funnelselect</i>
15:50-16:10	Ioana O. Bercea, Jakob Bæk Tejs Knudsen and Rasmus Pagh. <i>Daisy Bloom Filters</i>
16:10-16:30	Matthias Bentert, Alex Crane, Pål Grønås Drange, Felix Reidl and Blair D. Sullivan. <i>Correlation Clustering with Vertex Splitting</i>
16:35-17:00	SWAT Business Meeting

Thursday, June 13th

09:00-10:20	Session 6: Computational Geometry Chair: <i>Greg Bodwin</i>
09:00-09:20	Bernd Gärtner, Vishwas Kalani, Meghana M. Reddy, Wouter Meulemans, Bettina Speckmann and Milos Stojakovic. <i>Optimizing Symbol Visibility Through Displacement</i>
09:20-09:40	Kien C. Huynh, Joseph S. B. Mitchell, Linh Nguyen and Valentin Polishchuk. <i>Optimizing Visibility-Based Search in Polygonal Domains</i>
09:40-10:00	Josh Brunner, Kenneth Cheung, Erik Demaine, Jenny Diomidova, Christine Gregg, Hendrickson Della and Irina Kostitsyna. <i>Reconfiguration Algorithms for Cubic Modular Robots with Realistic Movement Constraints</i>
10:00-10:20	Eliot Robson and Sariel Har-Peled. <i>No-Dimensional Tverberg Partitions Revisited</i>
10:30-11:00	Coffee
11:00-11:50	Session 7: Invited Talk (Greg Bodwin) Chair: <i>Michał Pilipczuk</i>
11:00-11:50	Greg Bodwin. <i>Turán-type problems in Theoretical Computer Science</i>
11:50-12:30	Session 8: Approximation Chair: <i>Michał Pilipczuk</i>
11:50-12:10	Seyed Parsa Darbouy and Zachary Friggstad. <i>Approximating Minimum Sum Coloring with Bundles</i>
12:10-12:30	Benjamin Rockel-Wolff. <i>A Fast 3-Approximation for the Capacitated Tree Cover Problem with Edge Loads</i>
12:30-13:40	Lunch
13:40-15:00	Session 9: Parameterized Algorithms Chair: <i>Bart Jansen</i>
13:40-14:00	Michael Levet, Puck Rombach and Nicholas Sieger. <i>Canonizing Graphs of Bounded Rank-Width in Parallel via Weisfeiler--Leman</i>
14:00-14:20	Daniel Mock and Peter Rossmanith. <i>Solving a Family of Multivariate Optimization and Decision Problems on Classes of Bounded Expansion</i>
14:20-14:40	Matthew Johnson, Barnaby Martin, Daniël Paulusma, Sukanya Pandey, Siani Smith and Erik Jan van Leeuwen. <i>Edge Multiway Cut and Node Multiway Cut Are Hard for Planar Subcubic Graphs</i>
14:40-15:00	Lora Bailey, Heather Blake, Garner Cochran, Nathan Fox, Michael Levet, Reem Mahmoud, Inne Singgih, Grace Stadnyk and Alexander Wiedemann. <i>Pairwise Rearrangement Is Fixed-Parameter Tractable in the Single Cut-and-Join Model</i>
15:00-15:30	Coffee
15:30-16:50	Session 10: Graphs Chair: <i>Karen Aardal</i>
15:30-15:50	Christian Ortlieb and Jens Schmidt. <i>Toward Grünbaum's Conjecture</i>
15:50-16:10	Therese Biedl, Prosenjit Bose and Babak Miraftab. <i>On the Independence Number of 1-Planar Graphs</i>
16:10-16:30	Anand Louis, Rameesh Paul and Arka Ray. <i>Sparse Cuts in Hypergraphs from Random Walks on Simplicial Complexes</i>
16:30-16:50	Cristina Bazgan, André Nichterlein and Sofia Vazquez Alferéz. <i>Destroying Densest Subgraphs Is Hard</i>
19:00-	Conference dinner on the island of Suomenlinna in the officer's club. (Public Transportation tickets in registration package.)

Friday, June 14th

09:00-10:20	Session 11: Data Structures Chair: <i>Gerth Stølting Brodal</i>
09:00-09:20	Philip Bille, Yakov Nekrich and Solon Pissis. <i>Size-Constrained Weighted Ancestors with Applications</i>
09:20-09:40	Idan Shabat and Ofer Neiman. <i>Path-Reporting Distance Oracles with Linear Size</i>
09:40-10:00	Girish Balakrishnan, Sankardeep Chakraborty, N S Narayanaswamy and Kunihiko Sadakane. <i>Succinct Data Structure for Chordal Graphs with Bounded Vertex Leafage</i>
10:00-10:20	Stav Ashur and Sariel Har-Peled. <i>Local Spanners Revisited</i>
10:30-11:00	Coffee
11:00-11:50	Session 12: Invited Talk (Michał Pilipczuk) Chair: <i>Per Austrin</i>
11:00-11:50	Michał Pilipczuk. <i>Well-structured graphs through the lens of logic</i>
11:50-12:30	Session 13: Parameterized Algorithms Chair: <i>Tuukka Korhonen</i>
11:50-12:10	Bart M. P. Jansen and Ruben F. A. Verhaegh. <i>Search-Space Reduction via Essential Vertices Revisited: Vertex Multicut and Cograph Deletion</i>
12:10-12:30	Naonori Kakimura and Ildikó Schlotter. <i>Parameterized Complexity of Submodular Minimization Under Uncertainty</i>
12:30-13:40	Lunch
13:40-15:00	Session 14: Online Algorithms and Geometric Graphs Chair: <i>Petteri Kaski</i>
13:40-14:00	Joan Boyar, Shahin Kamali, Kim S. Larsen, Ali Mohammad Lavasani, Yaqiao Li and Denis Pankratov. <i>On the Online Weighted Non-Crossing Matching Problem</i>
14:00-14:20	Magnus Berg and Shahin Kamali. <i>Online Bin Covering with Frequency Predictions</i>
14:20-14:40	Akanksha Agrawal, Sergio Cabello, Michael Kaufmann, Saket Saurabh, Roohani Sharma, Yushi Uno and Alexander Wolff. <i>Eliminating Crossings in Ordered Graphs</i>
14:40-15:00	Gaétan Berthe, Marin Bougeret, Daniel Gonçalves and Jean-Florent Raymond. <i>Subexponential Algorithms in Geometric Graphs via the Subquadratic Grid Minor Property: The Role of Local Radius</i>
15:00-15:30	Coffee
15:30-16:30	Session 15: Graph Algorithms and Colouring Chair: <i>Jukka Suomela</i>
15:30-15:50	Robert Barish and Tetsuo Shibuya. <i>Recognition and Proper Coloring of Unit Segment Intersection Graphs</i>
15:50-16:10	Aleksander Bjørn Grodt Christiansen, Eva Rotenberg and Juliette Marie Victoire Vlieghe. <i>Sparsity-Parameterised Dynamic Edge Colouring</i>
16:10-16:30	Sayan Bhattacharya, Martin Costa, Nadav Panski and Shay Solomon. <i>Arboricity-Dependent Algorithms for Edge Coloring</i>