

Monday July 31 - WADS

8:30 AM	9:00 AM	Registration (MB 3rd floor) + Coffee (MB 3.130 lounge)	
9:00 AM	10:00 AM	Keynote (MB 3.210): Approximation Algorithms for Some Geometric Packing and Covering Problems <i>Joseph S. B. Mitchell</i> Chair: Subhash Suri	
10:00 AM	10:20 AM	Coffee break (MB 3.130 lounge)	
		WADS Session 1A (MB 3.430) Chair: Pat Morin	WADS Session 1B (MB 3.435) Chair: Hovhannes Harutyunyan
10:20 AM	10:45 AM	External-Memory Sorting with Comparison Errors <i>Michael Goodrich and Evrim Ozel</i>	Improved Bounds for Discrete Voronoi Games <i>Mark de Berg and Geert van Wordragen</i>
10:45 AM	11:10 AM	Classification via two-way comparisons <i>Marek Chrobak and Neal Young</i>	Efficient k-center algorithms for planar points in convex position <i>Jongmin Choi, Jaegun Lee and Hee-Kap Ahn</i>
11:10 AM	11:35 AM	Dominator Coloring and CD Coloring in Almost Cluster Graphs <i>Aritra Banik, Prahlad Narasimhan Kasthurirangan and Venkatesh Raman</i>	Dynamic Convex Hulls under Window-Sliding Updates <i>Haitao Wang</i>
11:40 AM	12:05 PM	WADS - Best Paper (MB 3.210) Chair: Denis Pankratov	
		Zip-zip Trees: Making Zip Trees More Balanced, Biased, Compact, or Persistent <i>Ofek Gila, Michael Goodrich and Robert Tarjan</i>	
12:05 PM	1:30 PM	Lunch - on your own	
		WADS Session 2A (MB 3.210) Chair: Pat Morin	WADS Session 2B (MB 3.435) Chair: Hovhannes Harutyunyan
1:30 PM	1:55 PM	Online Interval Scheduling with Predictions <i>Joan Boyar, Lene M. Favrholdt, Shahin Kamali and Kim S. Larsen</i>	Approximate Minimum Sum Colorings and Maximum k-Colorable Subgraphs of Chordal Graphs <i>Ian DeHaan and Zachary Friggstad</i>
1:55 PM	2:20 PM	Online Minimum Spanning Trees with Weight Predictions <i>Magnus Berg, Joan Boyar, Lene Favrholdt and Kim S. Larsen</i>	An ETH-Tight Algorithm for Bidirected Steiner Connectivity <i>Daniel Lokshantov, Pranabendu Misra, Fahad Panolan, Saket Saurabh and Meirav Zehavi</i>
2:20 PM	2:45 PM	Tight analysis of the lazy algorithm for open online dial-a-ride <i>Julia Baligacs, Yann Disser, Farehe Soheil and David Weckbecker</i>	Faster Algorithms for Cycle Hitting Problems on Disk Graphs <i>Shinwoo An, Kyungjin Cho and Eunjin Oh</i>
2:45 PM	3:10 PM	Online TSP with Known Locations <i>Evrpidis Bampis, Bruno Escoffier, Niklas Hahn and Michalis Xeferis</i>	Algorithmic Theory of Qubit Routing <i>Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi and Yoshio Okamoto</i>
3:10 PM	3:30 PM	Coffee break (MB 3.130 lounge)	
		WADS Session 3A (MB 3.210) Chair: TBA	WADS Session 3B (MB 3.435) Chair: Prosenjit Bose
3:30 PM	3:55 PM	Sublinear-Space Streaming Algorithms for Estimating Graph Parameters on Sparse Graphs <i>Xiuge Chen, Rajesh Chitnis, Patrick Eades and Anthony Wirth</i>	The Mutual Visibility Problem for Fat Robots <i>Rusul J. Alsaedi, Joachim Gudmundsson and André van Renssen</i>
3:55 PM	4:20 PM	Fully dynamic clustering and diversity maximization in doubling metrics <i>Paolo Pellizzoni, Andrea Pietracaprina and Geppino Pucci</i>	Shortest coordinated motion for square robots <i>Guillermo Esteban, Dan Halperin, Victor Ruiz, Vera Sacristan and Rodrigo Silveira</i>
4:20 PM	4:45 PM	Block Crossings in One-Sided Tanglegrams <i>Alexander Dobler and Martin Nöllenburg</i>	Density Approximation for Moving Groups <i>Max van Mulken, Bettina Speckmann and Kevin Verbeek</i>
4:45 PM	5:00 PM	Break	
5:00 PM	6:00 PM	Open problem session (MB 3.210)	

Tuesday August 1 - WADS

8:30 AM	9:00 AM	Registration (MB 3rd floor) + Coffee (MB 3.130 lounge)	
9:00 AM	10:00 AM	Keynote (MB 3.210): Studying information-computation gaps via “reductions between algorithms” <i>Tselil Schramm</i> Chair: Pat Morin	
10:00 AM	10:20 AM	Coffee break (MB 3.130 lounge)	
		WADS Session 4A (MB 3.210) Chair: Faith Ellen	WADS Session 4B (MB 3.435) Chair: Jie Xiao
10:20 AM	10:45 AM	Lower Bounds for Non-Adaptive Shortest Path Relaxation <i>David Eppstein</i>	Finding Diameter-Reducing Shortcuts in Trees <i>Davide Bilò, Luciano Gualà, Stefano Leucci and Luca Pepè Sciarria</i>
10:45 AM	11:10 AM	Linear Layouts of Bipartite Planar Graphs <i>Henry Förster, Michael Kaufmann, Laura Merker, Sergey Pupyrev and Chrysanthi Raftopoulou</i>	Geometric Spanning Trees Minimizing the Wiener Index <i>A. Karim Abu-Affash, Paz Carmi, Ori Luwisch and Joseph Mitchell</i>
11:10 AM	11:35 AM	Verifying the Product of Generalized Boolean Matrix Multiplication and Its Applications to Detect Small Subgraphs <i>Wing-Kai Hon, Meng-Tsung Tsai and Hung-Lung Wang</i>	Revisiting Graph Persistence for Updates and Efficiency <i>Tamal Dey, Tao Hou and Salman Parsa</i>
11:35 AM	12:00 PM	Colored Constrained Spanning Tree on Directed Graphs <i>Hung-Yeh Lee, Hsuan-Yu Liao and Wing-Kai Hon</i>	From Curves to Words and Back Again: Geometric Computation of Minimum-Area Homotopy <i>Bradley McCoy, Hsien-Chih Chang, Brittany Terese Fasy, David L. Millman and Carola Wenk</i>
12:00 PM	1:30 PM	Lunch - on your own	
		WADS Session 5A (MB 3.210) Chair: TBA	WADS Session 5B (MB 3.435) Chair: Michiel Smid
1:30 PM	1:55 PM	Quick Minimization of Tardy Processing Time on a Single Machine <i>Baruch Schieber and Pranav Sitaraman</i>	Differentially Private Range Query on Shortest Paths <i>Chengyuan Deng, Jie Gao, Jalaj Upadhyay and Chen Wang</i>
1:55 PM	2:20 PM	General Space-Time Tradeoffs via Relational Queries <i>Shaleen Deep, Xiao Hu and Paraschos Koutris</i>	Adaptive Data Structures for 2D Dominance Colored Range Counting <i>Younan Gao</i>
2:20 PM	2:45 PM	Compact Distance Oracles with Large Sensitivity and Low Stretch <i>Davide Bilò, Keerti Choudhary, Sarel Cohen, Tobias Friedrich, Simon Krogmann and Martin Schirneck</i>	Geometric Hitting Set for Line-Constrained Disks <i>Gang Liu and Haitao Wang</i>
2:45 PM	3:10 PM	Space-Efficient Functional Offline-Partially-Persistent Trees with Applications to Planar Point Location <i>Jens Kristian Refsgaard Schou, Gerth Stølting Brodal, Casper Moldrup Rysgaard and Rolf Svenning</i>	Approximating the discrete center line segment in linear time <i>Yuan Sha and Joachim Gudmundsson</i>
3:10 PM	3:30 PM	Coffee break (MB 3.130 lounge)	
		WADS Session 6A (MB 3.210) Chair: Bobby MirafTAB	WADS Session 6B (MB 3.435) Chair: Prosenjit Bose
3:30 PM	3:55 PM	Hardness of Graph-Structured Algebraic and Symbolic Problems <i>Jingbang Chen, Yu Gao, Yufan Huang, Richard Peng and Runze Wang</i>	Approximating the Smallest k-Enclosing Geodesic Disc in a Simple Polygon <i>Prosenjit Bose, Anthony D'Angelo and Stephane Durocher</i>
3:55 PM	4:20 PM	Realizability Makes a Difference: A Complexity Gap for Sink-Finding in USOs <i>Simon Weber and Joel Widmer</i>	A Parameterized Approximation Scheme for Generalized Partial Vertex Cover <i>Sayan Bandyapadhyay, Zachary Friggstad and Ramin Mousavi</i>
4:20 PM	4:45 PM	Reconfiguration of Time-Respecting Arborescences <i>Takehiro Ito, Yuni Iwamasa, Naoyuki Kamiyama, Yasuaki Kobayashi, Yusuke Kobayashi, Shun-Ichi Maezawa and Akira Suzuki</i>	3-Coloring C_4 or C_3-free Diameter Two Graphs <i>Tereza Klimošová and Vibha Sahlot</i>
4:45 PM	5:00 PM	Break	
5:00 PM	6:00 PM	WADS business meeting (MB 3.210)	
6:15 PM	8:30 PM	Game Night + Pizza (Grey Nuns garden, weather permitting)	

Wednesday August 2 - WADS & CCCG

8:30 AM	9:00 AM	Registration (MB 3rd floor) + Coffee (MB 3.130 lounge)	
9:00 AM	10:00 AM	Keynote (MB 3.210): The dynamic connectivity problem <i>Valerie King</i> Chair: Faith Ellen	
10:00 AM	10:20 AM	Coffee break (MB 3.130 lounge)	
		WADS Session 7V (virtual) - MB 3.210 Chair: Denis Pankratov	
10:20 AM	10:45 AM	Tight Approximation Algorithms for Ordered Covering <i>Jatin Batra, Syamantak Das and Agastya Vibhuti Jha</i>	
10:45 AM	11:10 AM	Socially Fair Matching: Exact and Approximation Algorithms <i>Sayan Bandyopadhyay, Fedor V. Fomin, Tanmay Inamdar, Fahad Panolan and Kirill Simonov</i>	
11:10 AM	11:35 AM	On Length-Sensitive Fréchet Similarity <i>Kevin Buchin, Seyed Erfan Hosseini Sereshgi, Brittany Terese Fasy and Carola Wenk</i>	
11:35 AM	12:00 PM	Observation Routes and External Watchman Routes <i>Adrian Dumitrescu and Csaba Toth</i>	
12:00 PM	1:30 PM	Lunch - on your own	
		CCCG Session 1C (MB 3.210) Chair: Subhash Suri	CCCG Session 1D (MB 3.435) Chair: Akitoshi Kawamura
1:30 PM	2:00 PM	Spanning Tree, Matching, and TSP for Moving Points: Complexity and Regret <i>Wachholz, Nathan; Suri, Subhash</i>	Overlapping of Lattice Unfolding for Cuboids <i>Shiota, Takumi; Kamata, Tonan; Uehara, Ryuhei</i>
2:00 PM	2:30 PM	Online Square Packing with Predictions <i>Durocher, Stephane; Kamali, Shahin ; Zamani Nezhad, Pouria</i>	A Parameterized Algorithm for Flat Folding <i>Eppstein, David</i>
2:30 PM	3:00 PM	Minimum Ply Covering of Points with Unit Disks <i>Durocher, Stephane; Keil, J. Mark; Mondal, Debajyoti</i>	Piercing Unit Geodesic Disks <i>Biniáz, Ahmad; Bose, Prosenjit ; Shermer, Thomas C</i>
3:00 PM	3:30 PM	Coffee break (MB 3.130 lounge)	
		CCCG Session 2C (MB 3.210) Chair: Subhash Suri	CCCG Session 2D (MB 3.435) Chair: Prosenjit Bose
3:30 PM	4:00 PM	Super Guarding and Dark Rays in Art Galleries <i>O'Rourke, Joseph; Akitaya, Hugo; Demaine, Erik; Hesterberg, Adam; Lubiw, Anna; Lynch, Jayson; Stock, Frederick</i>	On the complexity of embedding in graph products <i>Biedl, Therese; Eppstein, David; Ueckerdt, Torsten</i>
4:00 PM	4:30 PM	Conflict-Free Chromatic Guarding of Orthogonal Polygons with Sliding Cameras <i>Bahoo, Yeganeh; Cagirci, Onur; Manastyrski, Kody; Nishat, Rahnuma Islam; Kolios, Christopher; Sherman, Roni</i>	On the Deque and Rique Numbers of Complete and Complete Bipartite Graphs <i>Bekos, Michael A.; Kaufmann, Michael; Pavlidis, Maria Eleni; Rieger, Xenia</i>
4:30 PM	5:00 PM	City Guarding with Cameras of Bounded Field of View <i>Biniáz, Ahmad; Hashemi, Mohammad</i>	Dynamic Schnyder woods <i>Cano, Pilar; Bhore, Sujoy; Bose, Prosenjit ; Cardinal, Jean; Iacono, John</i>
5:00 PM	5:15 PM	Break	
5:15 PM	6:15 PM	Open problem session (MB 3.210)	
6:15 PM	8:30 PM	WADS & CCCG Reception (MB 9th floor)	

Thursday August 3 - WADS & CCCG

8:30 AM	9:00 AM	Registration (MB 3rd floor) + Coffee (MB 3.130 lounge)	
9:00 AM	10:00 AM	<p align="center">Keynote (MB 3.210): Reconfiguration Algorithms <i>Diane Souvaine</i> <i>Chair: Stephane Durocher</i></p>	
10:00 AM	10:30 AM	Coffee break (MB 3.130 lounge)	
		CCCG Session 3C (MB 3.210) Chair: Therese Biedl	CCCG Session 3D (MB 3.435) Chair: Jie Xiao
10:30 PM	11:00 PM	<p>Geometric Algorithms for k-NN Poisoning <i>Ihara, Diego; Chubarian, Karine; Fan, Bohan; Sgherzi, Francesco; S Radhakrishnan, Thiruvenkadam; Sidiropoulos, Anastasios; Straight, Angelo P</i></p>	<p>CCOSKEG Discs in Simple Polygons <i>Bose, Prosenjit ; D'Angelo, Anthony; Durocher, Stephane</i></p>
11:00 PM	11:30 PM	<p>Reducing Nearest Neighbor Training Sets Optimally and Exactly <i>Weber, Simon; Rohrer, Josiah</i></p>	<p>Parallel Line Centers with Guaranteed Separation <i>Chung, Chaeyoon; Ahn, Taehoon; Bae, Sang Won; Ahn, Hee-Kap</i></p>
11:30 PM	12:00 AM	<p>Square Hardness for Clustering with Neighborhoods <i>Klimenko, Georgiy; Raichel, Benjamin</i></p>	<p>Improved Algorithms for Burning Planar Point Sets <i>Kamali, Shahin ; Shabanijou, Mohammadmasoud</i></p>
12:00 PM	1:30 PM	Lunch - on your own	
		CCCG Session 4C (MB 3.210) Chair: Shahin Kamali	CCCG Session 4D (MB 3.435) Chair: Jie Xiao
1:30 PM	2:00 PM	<p>On the Budgeted Hausdorff Distance Problem <i>Har-Peled, Sariel; Raichel, Benjamin</i></p>	<p>Lower Bounds for the Thickness and the Total Number of Edge Crossings of Euclidean Minimum Weight Laman Graphs and (2,2)-Tight Graphs <i>Kawakami, Yuki; Takahashi, Shun; Seto, Kazuhisa; Horiyama, Takashi; Kobayashi, Yuki; Higashikawa, Yuya; Katoh, Naoki</i></p>
2:00 PM	2:30 PM	<p>Approximating the Directed Hausdorff Distance <i>Chubet, Oliver; Parikh, Parth; Sheehy, Donald R; Sheth, Siddharth S</i></p>	<p>Geometric Graphs with Unbounded Flip-Width <i>Eppstein, David; McCarty, Rose</i></p>
2:30 PM	3:00 PM	<p>Convex Hulls and Triangulations of Planar Point Sets on the Congested Clique <i>Jansson, Jesper; Levkopoulos, Christos; Lingas, Andrzej J</i></p>	<p>Graph Mover's Distance: An Efficiently Computable Distance Measure for Geometric Graphs <i>Majhi, Sushovan</i></p>
3:00 PM	3:30 PM	Coffee break (MB 3.130 lounge)	
		CCCG Session 5C (MB 3.210) Chair: David Eppstein	CCCG Session 5D (MB 3.435) Chair: Shahin Kamali
3:30 PM	4:00 PM	<p>Metric and Path-Connectedness Properties of the Fréchet Distance for Paths and Graphs <i>Holmgren, Benjamin A; Fasy, Brittany T; Chambers, Erin; Majhi, Sushovan; Wenk, Carola</i></p>	<p>Partition, Reduction, and Conquer: A Geometric Feature-Based Approach to Convex Hull Computation <i>Park, Kyuseo; Schneider, Markus</i></p>
4:00 PM	4:30 PM	<p>Optimal Polyline Simplification under the Local Fréchet Distance in 2D in (Near-)Quadratic Time <i>Schäfer, Peter; Storandt, Sabine; Zink, Johannes</i></p>	<p>Software and Analysis for Dynamic Voronoi Diagrams in the Hilbert Metric <i>Gezalyan, Auguste; Bumpus, Madeline; Dai, Xufeng; Munoz, Samuel; Santhoshkumar, Renita; Ye, Songyu; Mount, David M</i></p>
4:35 PM	5:05 PM	<p align="center">CCCG - Best Paper Chair: Denis Pankratov</p>	
		<p align="center">Every Combinatorial Polyhedron Can Unfold with Overlap <i>O'Rourke, Joseph</i></p>	
5:05 PM	6:00 PM	CCCG business meeting (MB 3.210)	
6:15 PM	8:30 PM	Game Night + Pizza (update: MB 3rd floor)	

Friday August 4 - WADS & CCCG

8:30 AM	9:00 AM	Registration (MB 3rd floor) + Coffee (MB 3.130 lounge)	
9:00 AM	10:00 AM	<p align="center">Keynote (MB 3.210): Geometry and Matter <i>Ileana Streinu</i> Chair: <i>Therese Biedl</i></p>	
10:00 AM	10:30 AM	Coffee break (MB 3.130 lounge)	
		<p align="center">CCCG Session 6C (MB 3.210) Chair: David Eppstein</p>	<p align="center">CCCG Session 6D (MB 3.435) Chair: Ryuhei Uehara</p>
10:30 PM	11:00 PM	<p>Reconfiguration of Linear Surface Chemical Reaction Networks with Bounded State Change <i>Alaniz, Robert; Coulombe, Michael; Demaine, Erik; Fu, Bin; Knobel, Ryan; Gomez, Timothy; Grizzell, Elise; Rodriguez, Andrew; Schweller, Robert; Wylie, Timothy</i></p>	<p>Universal convex covering problems under affine dihedral group actions <i>Jung, Mook Kwon; Yoon, Sang Duk; Ahn, Hee-Kap; Tokuyama, Takeshi</i></p>
11:00 PM	11:30 PM	<p>Catalan Squares and Staircases: Relayering and Repositioning Gray Codes <i>Downing, Emily; Einstein, Stephanie; Hartung, Elizabeth; Williams, Aaron M</i></p>	<p>On the FPT Status of Monotone Convex Chain Cover <i>He, Qizheng</i></p>
11:30 PM	12:00 AM	<p>Computing Representatives of Persistent Homology Generators with a Double Twist <i>Pham, Tuyen; Wagner, Hubert</i></p>	<p>On Density Extrema for Digital ℓ_1-Balls in 2D and 3D <i>G. Basu, Nilanjana; Majumder, Subhashis; Bhowmick, Partha Bhowmick, IIT Kharagpur</i></p>
12:00 PM	12:30 PM	<p>Approximate Line Segment Nearest Neighbor Search amid Polyhedra in 3-Space <i>Daescu, Ovidiu; Teo, Ka Yaw</i></p>	
END OF PROGRAM			