

CCCG 2024

July 17-19, 2024

Wednesday July 17, 2024			
8:30 A.M. – 9:00 A.M.	Name tag/program collection Location: South Block (STH) Hallway		
9:00 A.M. – 10:00 A.M.	Paul Erdős Memorial talk: The discrete mathematical charms of Paul Erdős Vašek Chvátal Room: STH 216 Chair: Sue Whitesides		
10:00 A.M. – 10:30 A.M.	Coffee Break (South Block Hallway)		
	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">Session IA (STH 216) Session Chair: Sue Whitesides</td> <td style="width: 50%; border: none;">Session IB (STH 217) Session Chair: Shahin Kamali</td> </tr> </table>	Session IA (STH 216) Session Chair: Sue Whitesides	Session IB (STH 217) Session Chair: Shahin Kamali
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10:30 A.M. – 10:55 A.M.	Maintaining Light Spanners via Minimal Updates Hadi Khodabandeh and David Eppstein		
10:55 A.M. – 11:20 A.M.	On Totally-Concave Polyominoes Gill Barequet, Noga Keren, Neal Madras, Johann Peters, and Adi Rivkin		
11:20 A.M. – 11:45 A.M.	Skeletal Cut Loci on Convex Polyhedra Joseph O'Rourke and Costin Vilcu		
11:45 A.M. – 1:30 P.M.	Lunch (South Block Hallway)		
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1:30 P.M. – 1:55 P.M.	An Improved Algorithm for Shortest Paths in Weighted Unit-Disk Graphs Bruce W Brewer and Haitao Wang		
1:55 P.M. – 2:20 P.M.	Grid-edge unfolding orthostacks with rectangular slabs Klára Pernicová		
2:20 P.M. – 2:45 P.M.	On 3-layered Cornerhedra: Optimum Box Partitions for Niches Ulrike Stege, Sue Whitesides, Laurie Heyer, and William Lenhart		
2:45 P.M. – 3:15 P.M.	Coffee Break (South Block Hallway)		
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3:15 P.M. – 3:40 P.M.	Burning Simple Polygons Justin G Bruss, William Evans, and Jiaxuan Li		
3:40 P.M. – 4:05 P.M.	Maximum Overlap Area of Several Convex Polygons Under Translations Hyuk Jun Kweon and Honglin Zhu		
4:05 P.M. – 4:30 P.M.	Well-Separated Multiagent Path Traversal Gleb Dilman, David Eppstein, Valentin Polishchuk, and Christiane Schmidt		
4:30 P.M. – 5:30 P.M.	Open Problem Session: Joseph O'Rourke		
5:30 P.M. – 6:00 P.M.	Break		
6:00 P.M. – 8:30 P.M.	Group Photo and Conference Banquet at Pond Inlet		

Thursday July 18, 2024

8:30 A.M. – 9:00 A.M.	Name tag/ program. collection Location: South Block (STH) Hallway	
9:00 A.M. – 10:00 A.M.	Godfried Toussaint Memorial talk: Geometric Reconfiguration of Graphs Drawn in the Plane Anna Lubiw Room: STH 216 Chair: Ke Qiu	
10:00 A.M. – 10:30 A.M.	Coffee Break (South Block Hallway)	
	Session 4A (STH 216) Session Chair: Ke Qiu	Session 4B (STH 217) Session Chair: Yeganeh Bahoo
10:30 A.M. – 10:55 A.M.	Complexity of 2D Snake Cube Puzzles Pitchayut Saengrungkongka, Erik Demaine, Nithid Anchaleenukoon, Kaylee Ji, and Alex Dang	Euclidean Freeze-Tag Problem on Plane Saeed Odak, Cyril Gavaille, Nicolas Bonichon, and Nicolas Hanusse
10:55 A.M. – 11:20 A.M.	On Erdos-Szekeres Maker-Breaker games Arun Kumar Das and Tomas Valla	Hyperplane Distance Depth Mashghdoust, Amirhossein; Durocher, Stephane
11:20 A.M. – 11:45 A.M.	The En Route Truck-Drone Delivery Problem Jaroslav Opatrny, Danny Krizanc, Denis Pankratov, and Lata Narayanan	Quantum Speedup for Some Geometric 3SUM-Hard Problems and Beyond J. Mark Keil, Fraser McLeod, and Debajyoti Mondal
11:45 A.M. – 1:30 P.M.	Lunch (South Block Hallway)	
	Session 5A (STH 216) Session Chair: Yeganeh Bahoo	Session 5B (STH 217) Session Chair: Denis Pankratov
1:30 P.M. – 1:55 P.M.	Experimental analysis of oriented spanners on one-dimensional point sets Antonia Kalb, Kevin Buchin, Carolin Rehs, and Guangping Li	Generalizing Combinatorial Depth Measures to Line Segments Myroslav Kryven and Stephane Durocher
1:55 P.M. – 2:20 P.M.	Fast Area-Weighted-Peeling of Convex Hulls for Outlier Detection Vinesh Sridhar and Rolf Svenning	How Small Can Faithful Sets Be? Ordering Topological Descriptors Brittany T Fasy, David Millman, and Anna Schenfish
2:20 P.M. – 2:45 P.M.	Geometric Localization of Homology Cycles Amritendu Shekhar Dhar, Abhishek Rathod, and Vijay Natarajan	On the crossing number of symmetric configurations Bernardo Abrego and Silvia Fernandez
2:45 P.M. – 3:15 P.M.	Coffee Break (South Block Hallway)	
	Session 6A (STH 216) Session Chair: Debajyoti Mondal	Session 6B (STH 217) Session Chair: Denis Pankratov
3:15 P.M. – 3:40 P.M.	Local Frechet Permutation Jonathan Perry and Benjamin Raichel	Flips in Odd Matchings Oswin Aichholzer, Anna Brötzner, Daniel Perz, and Patrick Schnider
3:40 P.M. – 4:05 P.M.	PersiSort: A New Perspective on Adaptive Sorting Based on Persistence Jens Kristian Refsgaard Schou and Bei Wang	Finding maximum matchings in RDV graphs efficiently Therese Biedl and Prashant Gokhale
4:05 P.M. – 4:30 P.M.	Best dissertation talk: Simple Drawings of Complete (Multipartite) Graphs: Plane Subdrawings and Isomorphisms Alexandra Weinberger Chair: Therese Biedl	
4:30 P.M. – 4:45 P.M.	Break	
4:45 P.M. – 5:45 P.M.	Business meeting (STH 216)	
5:45 P.M. – 7:00 P.M.	Hiking through the Bruce trail followed by Pizza at the South Block Hallway	

Friday July 19, 2024

8:30 A.M. – 9:00 A.M.	Name tag/ program collection Location: South Block (STH) Hallway	
9:00 A.M. – 10:00 A.M.	Ferran Hurtado Memorial talk: Finding Cliques in Disk Graphs Mark Keil Room: STH 216 Chair: Stephane Durocher	
10:00 A.M. – 10:30 A.M.	Coffee Break (South Block Hallway)	
	Session 7A (STH 216) Session Chair: Stephane Durocher	Session 7B (STH 217) Session Chair: Ahmad Biniaz
10:30 A.M. – 10:55 A.M.	Polyhedral roll-connected colorings of partial tilings Robert D Barish and Tetsuo Shibuya	Set Cover and Hitting Set Problems for Some Restricted Classes of Rectangles Minati De, Ratnadip Mandal, and Subhas C. Nandy
10:55 A.M. – 11:20 A.M.	Slant/Gokigen Naname is NP-complete Jayson Lynch and Jack Spalding-Jamieson,	Building Discrete Self-Similar Fractals in Seeded Tile Automata Ryan Knobel, Adrian Salinas, Robert Schweller, and Tim Wylie
11:20 A.M. – 11:45 A.M.	Top-k colored orthogonal range search Guangya Cai and Ravi Janardan	
11:45 A.M. – 12:45 P.M.	Lunch bag collection (South Block Hallway)	
1:00 P.M. – 6:30 P.M.	Tour to Niagara Falls	