

CCCG 2015 Program. **Note:** All the presentations take place in the Biosciences Complex at Queen's University.

Each twenty minute slot will accommodate a **seventeen minute talk**, leaving two minutes for questions, and one minute for the transition to the next speaker.

Session A, plenary sessions, open problem session and the business meeting are in Room 1102, and Session B is in room 1103.

Sunday, August 9		
18:00		Welcome Reception at Four Points by Sheraton Kingston, 285 King Street East. Appetizers and drink tickets will be provided. Registration.

Monday, August 10		
8:30	9:00	Registration
9:00	9:10	Opening remarks
9:10	10:10	Bruce Reed: Paul Erdős Memorial Lecture.
10:10	10:40	BREAK
		Session 1A
		Session 1B
10:40	11:00	<p>Mark Keil, Joseph Mitchell, Dinabandhu Pradhan and Martin Vatshelle. An Algorithm for the Maximum Weight Independent Set Problem on Outerstring Graphs</p>
		<p>Willem Hagemann and Eike Moehlmann. Inscribing H-Polyhedra in Quadrics Using a Projective Generalization of Closed Convex Sets</p>
11:00	11:20	<p>Stephane Durocher and Robert Fraser. Duality for Geometric Set Cover and Geometric Hitting Set Problems on Pseudodisks</p>
		<p>Therese Biedl and Martin Derka. 1-string B1-VPG-representations of planar partial 3-trees and some subclasses</p>
11:20	11:40	<p>Esther Arkin, Aritra Banik, Paz Carmi, Gui Citovsky, Matthew Katz, Joseph Mitchell and Marina Simakov. Conflict-free Covering</p>
		<p>Sepideh Aghamolaei, Majid Farhadi and Hamid Zarrabi-Zadeh. Diversity Maximization via Composable Coresets</p>
11:40	12:00	<p>Siming Li, Jie Gao, David Xianfeng Gu, Mayank Goswami, Jun Wei Zhang and Emil Saucan. Space Filling Curves for 3D Sensor Networks with Complex Topology</p>
		<p>Matthew Dippel and Ravi Sundaram. An Upper Bound on Trilaterating Simple Polygons</p>
12:00	14:00	LUNCH

Monday, August 10			
		Session 2A	Session 2B
14:00	14:20	Prosenjit Bose, Jean-Lou De Carufel and André van Renssen. <i>Constrained Empty-Rectangle Delaunay Graphs</i>	Zahra Mirikharaji and Bradford Nickerson. <i>A Fault Tolerant Data Structure for Peer-to-Peer Range Query Processing</i>
14:20	14:40	Prosenjit Bose and Sander Verdonschot. <i>Flips in Edge-Labelled Pseudo-Triangulations</i>	Ian Munro, Yakov Nekrich and Sharma V. Thankachan. <i>Range Counting with Distinct Constraints</i>
14:40	15:00	Giovanni Viglietta, Prosenjit Bose, Jean-Lou De Carufel, Michael Dobbins and Heuna Kim. <i>The Shadows of a Cycle Cannot All Be Paths</i>	Aritra Banik, Matthew Katz and Marina Simakov. <i>Bottleneck Segment Matching</i>
15:00	15:30	BREAK	
		Session 3A	Session 3B
15:30	15:50	Laurie Heyer, Anna Lubiw, Debajyoti Mondal, Ulrike Stege and Sue Whitesides. <i>Reconfiguring a Chain of Cubes</i>	Nicholas Cavanna, Don Sheehy and Mahmoodreza Jahanseir. <i>A Geometric Perspective on Sparse Filtrations</i>
15:50	16:10	Oswin Aichholzer, Michael Biro, Erik D. Demaine, Martin Demaine, David Eppstein, Sándor Fekete, Adam Hesterberg, Irina Kostitsyna and Christiane Schmidt. <i>Folding Polyominoes into (Poly)Cubes</i>	Shahin Kamali, Alejandro Lopez Ortiz and Zahed Rahmati. <i>Online Packing of Equilateral Triangles</i>
16:10	16:30	Amirhossein Mozafari and Alireza Zarei. <i>Touring a Sequence of Line Segments in Polygonal Domain Fences</i>	Mabel Iglesias-Ham, Herbert Edelsbrunner and Vitaliy Kurlin. <i>Relaxed Disk Packing</i>
18:00		Conference Banquet at the Donald Gordon Centre, 421 Union Street	

Tuesday, August 11			
		Session 4A	Session 4B
9:00	9:20	Timothy M. Chan and Zahed Rahmati. <i>Approximating the Minimum Closest Pair Distance and Nearest Neighbor Distances of Linearly Moving Points</i>	Aruni Choudhary and Michael Kerber. <i>Local Doubling Dimension of Point Sets</i>
9:20	9:40	Timothy M. Chan and Simon Pratt. <i>Time-Windowed Closest Pair</i>	Behnam Hatami and Hamid Zarrabi-Zadeh. <i>A Streaming Algorithm for 2-Center with Outliers in High Dimensions</i>
9:40	10:00	Donald Sheehy. <i>An Output-Sensitive Algorithm for Computing Weighted α-Complexes</i>	Raimi Rufai and Dana Richards. <i>A Streaming Algorithm for the Convex Hull</i>
10:00	10:20	Timothy Chan and Dimitrios Skrepetos. <i>Dynamic data structures for approximate Hausdorff distance in the word RAM</i>	Michael Kerber and Sharath Raghvendra. <i>Approximation and Streaming Algorithms for Projective Clustering via Random Projections</i>
10:20	11:00	BREAK	
11:00	12:00	Jonathan Shewchuk: Invited Plenary Lecture	
12:00	14:00	LUNCH	

Tuesday, August 11			
		Session 5A	Session 5B
14:00	14:20	Shimin Li and Haitao Wang. <i>Algorithms for Minimizing the Movements of Spreading Points in Linear Domains</i>	Bahram Kouhestani, David Rappaport and Kai Salomaa. <i>On the Inverse Beacon Attraction Region of a Point</i>
14:20	14:40	Shankar Sastry. <i>Maximizing the Minimum Angle with the Insertion of Steiner Vertices</i>	Thomas Shermer. <i>A Combinatorial Bound for Beacon-based Routing in Orthogonal Polygons</i>
14:40	15:00	Leonidas Palios. <i>An Output-Sensitive Algorithm for Computing the s-kernel</i>	Stephane Durocher, Pak Ching Li and Saeed Mehrabi. <i>Guarding Orthogonal Terrains</i>
15:00	15:30	BREAK	
15:30	16:15	Joseph O'Rourke: Open Problem Session	
16:15	16:45	Business Meeting	

Wednesday, August 12			
9:00	10:00	Jit Bose: Ferran Hurtado Memorial Lecture	
10:00	10:30	BREAK	
		Session 6A	Session 6B
10:30	10:50	Amin Gheibi, Anil Maheshwari and Jorg Sack. <i>Weighted Minimum Backward Frechet Distance</i>	Harrison Gregg, Jody Leonard, Aaron Santiago and Aaron Williams. <i>Buttons & Scissors is NP-Complete</i>
10:50	11:10	Robin Flatland and Alexandru Damian. <i>Squeeze-free Hamiltonian Paths in Grid Graphs</i>	Aviv Adler, Michael Biro, Erik Demaine, Mikhail Rudoy and Christiane Schmidt. <i>Computational complexity of numberless Shakashaka</i>
11:10	11:30	A. Karim Abu-Affash, Paz Carmi and Anat Parush Tzur. <i>Strongly Connected Spanning Subgraph for Almost Symmetric Networks</i>	Ahmed Abdelkader, Ahmed Saeed, Khaled Harras and Amr Mohamed. <i>The Inapproximability of Illuminating Polygons by α-Floodlights</i>
11:30	11:50	Ahmad Biniiaz, Anil Maheshwari, Michiel Smid and Paul Liu. <i>A Faster 4-Approximation Algorithm for the Unit Disk Cover Problem</i>	Martin Fink and Subhash Suri. <i>Bends in Anchored Graph Drawing</i>
11:50	12:10	Gokarna Sharma, Costas Busch and Supratik Mukhopadhyay. <i>Bounds on Mutual Visibility Algorithms</i>	
12:10	12:15	Closing Remarks	