

22nd Canadian Conference on Computational Geometry (CCCG 2010) - University of Manitoba, Winnipeg, Manitoba, Canada - August 9-11, 2010

Monday, August 9		Tuesday, August 10		Wednesday, August 11		
room EITC E2-105	room EITC E2-165	room EITC E2-105	room EITC E2-165	room EITC E2-105	room EITC E2-165	
Conference Opening		4A Triangulations and Polyhedralizations chair: Sébastien Collette	4B Scheduling and Partitioning chair: Will Evans	7A Graph Algorithms and Graph Drawing chair: Stephen Wismath	7B Polygons and Folding chair: Helen Cameron	
9:00	<i>Barnard</i> Welcome and Opening Address	(talk cancelled)	<i>Millman, O'Meara, Snoeyink and Verma</i> Maximum Geodesic Flow in the Plane with Obstacles	<i>Huber and Held</i> Computing Straight Skeletons of Planar Straight-Line Graphs Based on Motorcycle Graphs	<i>Das, Mukhopadhyay, Nandy, Patil and Rao</i> Computing the Straight Skeleton of a Monotone Polygon in $O(n \log n)$ Time	
9:20	1A Covering and Guarding chair: Greg Aloupis	<i>Vogtenhuber, Hackl and Aichholzer</i> Compatible Pointed Pseudo-Triangulations	<i>Carrigan</i> Evading Equilateral Triangles without a Map	<i>Mondal, Nishat, Rahman and Alam</i> Minimum-Area Drawings of Plane 3-Trees	<i>Steiger and Barany</i> On the Variance of Random Polygons	
9:40	<i>Li and Klette</i> Watchman Route in a Simple Polygon with a Rubberband Algorithm	<i>Bose, Collette, Hurtado, Korman, Langerman, Sacristan and Saumell</i> Some Properties of Higher Order Delaunay and Gabriel Graphs	<i>Aleardi, Fusy and Lewiner</i> Optimal Encoding of Triangular and Quadrangular Meshes with Fixed Topology	<i>Dumitrescu and Toth</i> Watchman Tours for Polygons with Holes	<i>Sember and Evans</i> k-Star-Shaped Polygons	
10:00	<i>Jabbari, Evans and Kirkpatrick</i> Multi-guard Covers for Polygonal Regions	<i>Kopecka, Reem and Reich</i> Existence of Zone Diagrams in Compact Subsets of Uniformly Convex Spaces	<i>Barequet, Benbernou, Charlton, Demaine, Demaine, Ishaque, Lubiw, Schulz, Souvaine, Toussaint and Winslow</i> Bounded-Degree Polyhedronization of Point Sets	<i>Akbari and Ghodsi</i> Visibility Maintenance of a Moving Segment Observer inside Polygons with Holes	<i>Tahmasbi and Hashemi</i> Orthogonal thickness of graphs	
10:20	<i>Viglietta and Monge</i> The 3-dimensional Searchlight Scheduling Problem	<i>Vogtenhuber, Aichholzer, Fabila-Monroy, Hackl, Pilz, Ramos and van Kreveld</i> Blocking Delaunay Triangulations	<i>Urrutia, Pelaez and Ramirez-Vigueras</i> Triangulations with Many Points of Even Degree	<i>Dillabaugh</i> I/O Efficient Path Traversal in Well-Shaped Tetrahedral Meshes	<i>Loffler and Nollenburg</i> Shooting Bricks with Orthogonal Laser Beams: A First Step towards	
10:40	coffee and refreshments		coffee and refreshments		coffee and refreshments	
11:00	Paul Erdős Memorial Lecture	Invited Lecture	Invited Lecture	Invited Lecture	Invited Lecture	
	<i>Avis</i> Those Ubiquitous Cut Polyhedra	<i>Eppstein</i> Regular Labelings and Geometric Structures		<i>Kirkpatrick</i> Determining the Robustness of Sensor		
12:00	lunch in EITC E2-229		lunch in EITC E2-229		lunch in EITC E2-229	
1:30	2A Geometric Sensor Networks chair: David Rappaport	2B Kinetic and Dynamic Data chair: Helen Cameron	5A Discrete Mathematics chair: Paz Carmi	5B Medians and Epsilon-nets chair: Alexandre Leblanc	8A Facility Location chair: Stephane Durocher	8B Range Searching chair: Jason Morrison
	<i>Guibas, Milosavljevic and Motskin</i> Connected Dominating Sets on Dynamic Geometric Graphs	<i>Rahmati and Zarei</i> Combinatorial Changes of Euclidean Minimum Spanning Tree of Moving Points in the Plane	<i>Dumitrescu</i> Approximate Euclidean Ramsey Theorems	<i>Chen, Devillers, Iacono, Langerman and Morin</i> Oja Medians and Centers of Gravity	<i>Alam and Mukhopadhyay</i> A New Algorithm and Improved Lower Bound for Point Placement on a Line in Two Rounds	<i>Das and Nickerson</i> I/O-Efficient Triangular Range Search and its Application
1:50	<i>Carmi and Chaitman</i> Stable Roommates and Geometric Spanners	<i>Sulovsky and Wagner</i> k-Sets and Continuous Motion in R ³	<i>Malheiro and Stolfi</i> Finding Minimal Bases in Arbitrary Spline Spaces	<i>Basu, Bhattacharya and Talukdar</i> The Projection Median of a Set of Points in R ^d	<i>Dumitrescu and Jiang</i> Constrained k-Center and Movement to Independence	<i>Rahul, Bellam, Gupta and Rajan</i> Range Aggregate Structures for Colored Geometric Objects
2:10	<i>Abdallah, Fevens and Opatrný</i> 3D Local Algorithm for Dominating Sets of Unit Disk Graphs	<i>Ehsanfar, Bigham and Madadi</i> An Optimal Solution for Dynamic Polar Diagram	<i>Demaine, Demaine and Uehara</i> Any Monotone Function Can Be Realized by Interlocked Polygons	<i>Ashok, Govindarajan and Kulkarni</i> Small Strong Epsilon Nets	<i>Panahi and Mohades</i> Computing Minimum Limited-Capacity Matching in one-Dimensional space and for the Points Lying on Two Perpendicular Lines	<i>Nekrich and Smid</i> Approximating Range-Aggregate Queries using Coresets
2:30	<i>Ben-Moshe, Carmi, Chaitman, Katz, Morgenstern and Stein</i> Direction Assignment in Wireless Networks	<i>Le and Nickerson</i> Towards a Dynamic Data Structure for Efficient Bounded Line Range Search	<i>Miyata, Moriyama and Fukuda</i> Complete Enumeration of Small Realizable Oriented Matroids	<i>Kulkarni and Govindarajan</i> New Epsilon-Net Constructions	<i>Bhattacharya and Nandy</i> New Variations of the Reverse Facility Location Problem	
2:50	coffee and refreshments		coffee and refreshments		coffee and refreshments	
3:10	3A Degeneracy of Point Sets chair: Prosenjit Bose	3B Graph Colouring chair: Joseph O'Rourke	6A Enclosings chair: Adrian Dumitrescu	6B Polygonal Distance Metrics chair: Michiel Smid	9A Optimization chair: Anna Lubiw	9B Ham Sandwich Problems chair: Brad Nickerson
	<i>Kato</i> On Degeneracy of a Lower Envelope of Algebraic Surfaces	<i>Fulek</i> Coloring Geometric Hypergraph Defined by an Arrangement of Half-Planes	<i>Bose, Cheong and Dujmovic</i> On the Perimeter of Fat Objects	<i>Pan, Li and Klette</i> Approximate Shortest Path Algorithms for Sequences of Pairwise Disjoint Simple Polygons	<i>Dumitrescu</i> The Traveling Salesman Problem for Lines and Rays in the Plane	<i>Sheikhi, de Berg, Mohades and Monfared</i> Finding Monochromatic L-Shapes in Bichromatic Point Sets
3:30	<i>Charlton, Demaine, Demaine, Dujmovic, Morin and Uehara</i> Ghost Chimneys	<i>Jiang, Pilaud and Tejada</i> On a Dispersion Problem in Grid Labeling	<i>Bousany, Karker, O'Rourke and Sparaco</i> Sweeping Minimum Perimeter Enclosing Parallelograms: Optimal Crumb Cleanup	<i>Maheshwari, Sack, Shahbaz and Zarrabi-Zadeh</i> Speed-Constrained Geodesic Fréchet Distance Inside a Simple Polygon	<i>Bose, Douieb, Dujmovic, Howat and Morin</i> Fast Local Searches and Updates in Bounded Universes	<i>Fulek, Keszegh, Moric and Uljarevic</i> On Polygons Excluding Point Sets
3:50	<i>Taslakian and Hubard</i> Deflating Polygons to the Limit	<i>Klein and Suri</i> Robot Kabaddi	<i>Bose and De Carufel</i> Minimum Enclosing Area Triangle with a	<i>Fraser and Nicholson</i> Hausdorff Core of a One Reflex Vertex	<i>Sadhu, Bishnu, Nandy and Goswami</i> Cluster Connecting Problem inside a Polygon	<i>Steiger, Szegedy and Zhao</i> Six-Way Equipartitioning by Three Lines in
4:20	Open Problem Session		Business Meeting			
	<i>Demaine and O'Rourke</i>		Conference Chairs. All welcome to attend			
6:00			Conference Banquet			
			Buses leaves for Inn at the Forks			