

Except as noted, all presentations will take place in the **Tyser Auditorium** in **Van Munching Hall**, on the campus of the University of Maryland, College Park. This version reflects a minor correction to Sessions 5A/B.

Sunday, June 8				
7:00-9:00pm	Welcome Reception and Registration (Reever's Hall, Rigg's Alumni Center)			
Monday, June 9				
8:15-9:00	Registration and Light breakfast —			
	Session 1			
9:10-9:30	Dynamic Coresets, Timothy M. Chan			
9:30-9:50	<i>Optimizing Active Ranges for Consistent Dynamic Map Labeling,</i> Ken Been, Martin Nöllenburg, Sheung-Hung Poon and Alexander Wolff			
9:50-10:10	Maximum Thick Paths in Static and Dynamic Environments, Esther Arkin, Joseph Mitchell and Valentin Polishchuk			
10:10-10:30	Circular Partitions with Applications to Visualization and Embeddings, Krzysztof Onak and Anastasios Sidiropoulos			
10:30-11:00	— Coffee break —			
11:00-12:00	Invited Talk Delaunay Triangulations of Polyhedral Surfaces, a Discrete Laplace-Beltrami Operator and Applications Alexander Bobenko (Technische Universität Berlin)			
12:00-2:00	— Lunch —			
	Session 2A (Tyser Auditorium)	Session 2B (Van Munching 1330)		
2:00-2:20	<i>Tighter Bounds for Random Projections of Manifolds</i> , Ken Clarkson	The Complexity of the Outer Face in Arrangements of Random Segments, Noga Alon, Dan Halperin, Oren Nechushtan and Micha Sharir		
2:25-2:45	Markov Convexity and Local Rigidity of Distorted Metrics, Manor Mendel and Assaf Naor	<i>On s-intersecting Curves and Related Problems,</i> Sarit Buzaglo, Ron Holzman and Rom Pinchasi		
2:50-3:10	Diameters, Centers, and Approximating Trees of δ- hyperbolic Geodesic Spaces and Graphs, Victor Chepoi, Feodor Dragan, Bertrand Estellon, Michel Habib and Yann Vaxes	On Levels in Arrangements of Curves, III: Further Improvements, Timothy M. Chan		
3:10-3:40	— Co	offee break —		
	Session 3			
3:40-4:00	A (Slightly) Faster Algorithm for Klee's Measure Problem, Timothy M. Chan			
4:00-4:20	<i>Walking Your Dog in the Woods in Polynomial Time</i> , Erin Chambers, Éric Colin de Verdière, Jeff Erickson, Sylvain Lazard, Francis Lazarus and Shripad Thite			
4:20-4:40	<i>Hinged Dissections Exist</i> , Timothy G. Abbott, Zachary Abel, David Charlton, Erik D. Demaine, Martin L. Demaine and Scott D. Kominers			
4:40-5:00	Helly-type Theorems for Approximate Covering, Julien Demouth, Olivier Devillers, Marc Glisse and Xavier Goaoc			
5:10	— Business Meeting (Tyser Auditorium) —			

	Tuesday, June 10		
8:15-9:00	— Registration and Light breakfast —		
	Session 4		
9:00-9:20	I/O Efficient Algorithms for Computing Contour Lines on a Terrain, Pankaj Agarwal, Lars Arge, Thomas Mølhave and Bardia Sadri		
9:20-9:40	External Memory Planar Point Location with Logarithmic Updates, Lars Arge, Gerth Stølting Brodal and S. Srinivasa Rao		
9:40-10:00	Self-Improving Algorithms for Delaunay Triangulations, Kenneth L. Clarkson and C. Seshadhri		
10:00-10:20	Markov Incremental Constructions, Bernard Chazelle and Wolfgang Mulzer		
10:20-10:50	— Coffee break —		
	Session 5A (Tyser Auditorium)	Session 5B (Van Munching 1330)	
10:50-11:10	Exact Geometric-Topological Analysis of Algebraic Surfaces, Eric Berberich, Michael Kerber and Michael Sagraloff	On the Complexity of Checking Self-duality of Polytopes and its Relations to Vertex Enumeration and Graph Isomorphism, Hans Raj Tiwary and Khaled Elbassioni	
11:15-11:35	Predicates for Line Transversals to Lines and Line Segments in Three-dimensional Space, Olivier Devillers, Marc Glisse and Sylvain Lazard	<i>New Existence Proofs for ε-Net</i> s, Evangelia Pyrga and Saurabh Ray	
11:40-12:00	Robust Construction of the Three-dimensional Flow Complex, Frederic Cazals, Aditya Parameswaran and Sylvain Pion	Extremal Problems on Triangle Areas in Two and Three Dimensions, Adrian Dumitrescu, Micha Sharir and Csaba Toth	
12:00-2:00	Lunch — Session 6: Video and Multimedia Presentations		
2:00-2:10	Arrangements of Geodesic Arcs on the Sphere, Efi Fogel, Ophir Setter and Dan Halperin		
2:10-2:20	DelPSC: A Delaunay Mesher for Piecewise Smooth Complexes, Joshua Levine and Tamal Dey		
2:20-2:30	On the Computation of 3D Periodic Triangulations, Manuel Caroli and Monique Teillaud		
2:30-2:40	Visualizing and Exploring Planar Algebraic Arrangements in the Web, Pavel Emeliyanenko and Michael Kerber		
2:40-2:50	Analyzing Rigidity with Pebble Games, Audrey Lee, Ilea	na Streinu and Louis Theran	
2:50-3:00	Minkowski Sums of Rotating Convex Polyhedra, Jyh-Ming Lien		
3:00-3:10	Routing a Maximum Number of Disks through a Scene of Moving Obstacles, Joodong Kim, Joseph S.B. Mitchell, Valentin Polishchuk and Arto Vihavainen		
3:10-3:40	— Coff	ee break —	
	Session 7		
3:40-4:00	Towards Persistence-Based Reconstruction in Euclidean Spaces, Frederic Chazal and Steve Oudot		
4:00-4:20	Reeb Spaces of Piecewise Linear Mappings, Herbert Edelsbrunner, John Harer and Amit Patel		
4:20-4:40	Testing Contractibility in Planar Rips Complexes, Erin Chambers, Jeff Erickson and Pratik Worah		
4:40-5:00	Approximating the Pathway Axis and the Persistence Diagram of a Collection of Balls in 3-Space, Eitan Yaffe and Dan Halperin		
6:30	— Conference Banquet (University Golf Course Clubhouse) —		

Wednesday, June 11				
8:15-9:00	— Registration and Light breakfast —			
	Session 8			
9:00-9:20	Locally Uniform Anisotropic Meshing, Jean-Daniel Boissonnat, Camille Wormser and Mariette Yvinec			
9:20-9:40	Discrete Laplace Operator on Meshed Surfaces, Misha Belkin, Jian Sun and Yusu Wang			
9:40-10:00	Untangling Triangulations through Local Explorations, Pankaj Agarwal, Bardia Sadri and Hai Yu			
10:00-10:20	Delaunay Triangulations of Imprecise Points in Linear Time after Preprocessing, Maarten Löffler and Jack Snoeyink			
10:20-10:50	— Coffee break —			
10:50-11:50	Invited Talk Geometry is Everywhere, Part XLVII: Metrics, Nets, Dimensions, and Measures Kenneth L. Clarkson (IBM Almaden Research Center)			
11:50-2:00	— Lunch —			
	Session 9A (Tyser Auditorium)	Session 9B (Van Munching 1330)		
2:00-2:20	A Simple and Efficient Kinetic Spanner, Mohammad Ali Abam, Mark de Berg and Joachim Gudmundsson	Fast Enumeration Algorithms for Non-crossing Geometric Graphs, Naoki Katoh and Shin-ichi Tanigawa		
2:25-2:45	Schnyder Woods for Higher Genus Triangulated Surfaces, Luca Castelli Aleardi, Eric Fusy and Thomas Lewiner	Polychromatic Colorings of Plane Graphs, Noga Alon, Robert Berke, Maike Buchin, Kevin Buchin, Peter Csorba, Saswata Shannigrahi, Bettina Speckmann and Philipp Zumstein		
2:50-3:10	Embedding and Similarity Search for Point Sets under Translation, Minkyoung Cho and David Mount	Coloring K_k -free Intersection Graphs of Geometric Objects in the Plane, Jacob Fox and Janos Pach		
3:10-3:40	— Co	ffee break —		
	Session 10			
3:40-4:00	Consistent Digital Rays, Jinhee Chun, Matias Korman, Martin Nöllenburg and Takeshi Tokuyama			
4:00-4:20	Combinatorial Genericity and Minimal Rigidity, Ileana Streinu and Louis Theran			
4:20-4:40	<i>Improved Upper Bounds on the Crossing Number</i> , Vida Dujmovic, Ken-ichi Kawarabayashi, Bojan Mohar and David R. Wood			
4:40-5:00	Intersecting Convex Sets by Rays, Rado Fulek, Andreas Holmsen and János Pach			
5:00	— Conference Ends —			