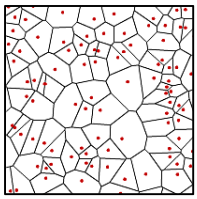

22nd Fall Workshop on Computational Geometry

Friday, November 9 (Math 3206)	
8:30-9:30	**— Check-in & light breakfast —**
	1st Session
9:30-9:50	Paul Accisano and Alper Üngör, *On the Curve/Point Set Matching Problem*
9:50-10:10	S. Sankararaman, P. K. Agarwal, T. Mølhave and A. P. Boedihardjo, *Identifying Common Portions Between Two Trajectories*
10:10-10:30	Jack Snoeyink and Vishal Verma, *Transformations to Critical Arcgons: Progress on Tighter Bounds for Delaunay Stretch*
10:30-10:50	Jack Snoeyink and Clinton Freeman, *A Geometric Workbench for Degree-Driven Algorithm Design*
10:50-11:10	**— Coffee break (20 minutes) —**
	2nd Session
11:10-11:30	John Iacono and Kostyantyn Mazur, *Tactix on an S-shaped Board*
11:30-11:50	Sarah R. Allen and John Iacono, *Packing Identical Simple Polygons is NP-hard*
11:50-12:10	Rainer Penninger and Ivo Vigan, *Point Set Isolation Using Disks is NP-complete*
12:10-12:30	Andrew Winslow, *Inapproximability of the Smallest Superpolyomino Problem*
12:30-2:00	**— Lunch —**
	3rd Session
2:00-2:20	Bahman Kalantari, *A Characterization Theorem and an Algorithm for a Convex Hull Problem*
2:20-2:40	Michael Biro, Justine Bonanno, Roozbeh Ebrahimi and Lynda Montgomery, *Approximation Algorithms for Outlier Removal in Convex Hulls*
2:40-3:00	Rezaul Chowdhury, Pramod Ganapathi and Yuan Tang, *The Range 1 Query (R1Q) Problem*
3:00-3:20	Christopher Vo and Jyh-Ming Lien, *Group Following in Monotonic Tracking Regions*
3:20-3:40	**— Coffee break (20 minutes) —**
	4th Session
3:40-4:00	Asish Mukhopadhyay, Chris Drouillard and Godfried Toussaint, *Guarding Simple Polygons with Semi-open Edge Guards*
4:00-4:20	Akitoshi Kawamura and Yusuke Kobayashi, *Fence Patrolling by Mobile Agents with Distinct Speeds*
4:20-4:40	Michael Biro and Justin Iwerks, *Watchman Paths in Disk Grids*
4:40-5:00	Jonathan Lenchner and Eli Packer, *Visibility Problems Concerning One-Sided Segments*
5:00-5:10	**— Short break (10 minutes) —**
5:10-6:00	**Open Problem Session**

Note: Different building, different starting time!

Saturday, November 10 (CSIC 1115)	
8:00-9:00	**— Check-in & light breakfast —**
	5th Session
9:00-9:20	Hu Ding and Jinhui Xu, *Chromatic Clustering in High Dimensional Space*
9:20-9:40	Jeff M. Phillips and Bei Wang, *Kernel Distance for Geometric Inference*
9:40-10:00	Jiemin Zeng and Jie Gao, *A Linear Time Euclidean Spanner on Imprecise Points*
10:00-10:20	**— Coffee break (20 minutes) —**
	6th Session
10:20-10:40	Ning Xu, Peter Braß and Ivo Vigan, *An improved Algorithm in Shortest Path Planning for a Tethered Robot*
10:40-11:00	Kan Huang, Chien-Chun Ni, Rik Sarkar, Jie Gao and Joseph S. B. Mitchell, *Bounded Stretch Homotopic Routing Using Hyperbolic Embedding of Sensor Network*
11:00-11:20	J. Li and T. J. Peters, *Isotopy Covergence Theorem*
11:20-11:30	**— Short break (10 minutes) —**
	7th Session — Invited Talk
11:30-12:30	**William Goldman** (University of Maryland) ***The Experimental Geometry Lab at the University of Maryland***
12:30-2:00	**— Lunch —**
	8th Session
2:00-2:20	Erin W. Chambers, Tao Ju and David Letscher, *Medial Residue On a Piecewise Linear Surface*
2:20-2:40	Erin W. Chambers, Tao Ju, David Letscher and Lu Liu, Burning the Medial Axes of 3D shapes
2:40-3:00	Gary L. Miller and Donald R. Sheehy, *A New Approach to Output-Sensitive Voronoi Diagrams and Delaunay Traiangulations*
3:00-3:20	Xiaotian Yin, Wei Han, Xianfeng Gu, Shing-Tung Yau, *Solving the Cutting Flow Problem for Prismatic Mesh Subdivision*
3:20-3:40	**— Coffee break (20 minutes) —**
	9th Session
3:40-4:00	Adrian Dumitrescu and Csaba D. Tóth, *Packing Disks that Touch the Boundary of a Square*
4:00-4:20	O. Aichholzer, S. R. Allen, G. Aloupis, L. Barba, P. Bose, J.-L. De Carufel, J. Iacono, S. Langerman and D. L. Souvaine, *Sum of Squared Edges for MST of a Point Set in a Unit Square*
4:20-4:40	Stefan Langerman, Mudassir Shabbir and William Steiger, *Computing Small Hitting Sets for Convex Ranges*
4:40-5:00	Boris Aronov, John Iacono, Özgür Özkan and Mark Yagnatinsky, *Finding the Thinnest V-shape with Few Outliers*
5:00-5:10	**— Short break (10 minutes) —**
5:10-6:00	**Open Problem Follow-up and Closing Remarks**