

Monday, March 14, 2011

- 09:00-09:30 Janos Pach
Tight Lower Bounds for Epsilon-Nets
- 09:30-10:00 Joerg-R Sack
Time-Dependent Shortest Paths in Networks
- 10:00-10:30 Ileana Streinu
Periodic Rigidity
- 10:30-11:00 Break
- 11:00-11:30 Joe Mitchell
Recent Progress on Some Covering Tour Problems
- 11:30-12:00 Tetsuo Asano
Memory-Constrained Algorithms
- 12:00-02:00 Lunch
- 02:00-03:00 Micha Sharir
From Joints to Distinct Distances Beyond: The Dawn of an Algebraic Era in Combinatorial Geometry
- 03:00-04:00 Break
- 04:00-04:30 Dan Halperin
On Path Quality in Sampling-Based Motion Planning
- 04:30-05:00 Marc van Kreveld
Median Trajectories
- 05:00-05:30 Jie Gao
Emergence of Sparse Spanners and Greedy WSPD
- 05:30-06:00 Esther Ezra
Improved Bound for the Union of Fat Triangles

Tuesday, March 15, 2011

- 09:00-09:30 Herbert Edelsbrunner
Features and Ghosts in Gaussian Convolution
- 09:30-10:00 Dominique Attali
Rips Complexes for Shape Reconstruction
- 10:00-10:30 Ken Clarkson
Sub-linear Optimization for Machine Learning
- 10:30-11:00 Break
- 11:00-11:30 Helmut Alt
Parallel Computation of the Depth of an Arrangement of Rectangles
- 11:30-12:00 Thomas Molhave
Natural Neighbor Interpolation for Grid DEM using GPU
- 12:00-04:00 Break
- 04:00-04:30 Sandor Fekete
Exact Solutions and Bounds for General Art Gallery Problems
- 04:30-05:00 Chee Yap
The Cxyz Algorithm for Isotopic Approximation of Nonsingular Surfaces
- 05:00-05:30 Carola Wenk
Computing the Frechet Distance between Folded Polygons
- 08:00-09:00 **Open Problem Session**

Wednesday, March 16, 2011

- 09:00-09:30 Raimund Seidel
Can Nearest Neighbor Search be Simple and Always Fast?
- 09:30-10:00 Otfried Cheong
A Generalization of Kakeya's Problem
- 10:00-10:30 Xavier Goaoc
On Intersection Patterns of Families of Sets
- 10:30-11:00 Break
- 11:00-11:30 Christian Knauer
Point-Separation Problems in High Dimension
- 11:30-12:00 David Kirkpatrick
Polygonal Paths of Bounded Curvature
- 07:30-08:00 Lino Tagliapietra: Glass Magician
Art Video by Erik Demaine and Martin Demaine

Thursday, March 17, 2011

- 09:00-09:30 Sylvain Lazard
On the Topology of Plane Algebraic Curves
- 09:30-10:00 Suresh Venkatasubramanian
Shapely Measures and Measures on Shapes: The Story of the Kernel Distance
- 10:00-10:30 Emo Welzl
Kasteleyn and the Number of Crossing-Free Matchings and Cycles on a Planar Point Set
- 10:30-11:00 Break
- 11:00-11:30 Ke Yi
Beyond Simple Aggregates
- 11:30-12:00 Bettina Speckmann
Pretty Maps
- 12:00-02:00 Break
- 02:00-02:30 Jonathan Shewchuk
Fixed Points of the Restricted Delaunay Triangulation Operator
- 02:30-03:00 Erin Moriarty Wolf Chambers
The Height of a Homotopy
- 03:00-04:00 Break
- 04:00-04:30 Shakhar Smorodinsky
List Coloring for Geometric Hypergraphs
- 04:30-05:00 Erik Demaine
Star Trek Replicators via Staged Self-Assembly
- 05:00-05:30 Michael Sagraloff
A General Approach to the Analysis of Controlled Perturbation Algorithms
- 05:30-06:00 Ricky Pollack
Double Permutation: Combinatorial Encodings of Arrangements of Disks

Friday, March 18, 2011

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| 09:00-09:30 | Michael Kerber
<i>Algorithms for Persistent Homology</i> |
| 09:30-10:00 | Rolf Klein
<i>The VC Dimension of Visibility</i> |
| 10:00-10:30 | Olivier Devillers
<i>The Effect of Noise on the Number of Extreme Points</i> |
| 10:30-11:00 | Break |
| 11:00-11:30 | Nicola Wolpert
<i>Triangular Meshes: Registration and GPU-based Distance Computation</i> |
| 11:30-12:00 | Kurt Mehlhorn
<i>The Physarum Computes</i> |