

Monday, March 9, 2015

- 09:00–09:30 Fabian Stehn
Augmenting embedded Paths and Trees to Optimize their Diameter
- 09:30–10:00 Siu-Wing Cheng
Shortest Paths on Polyhedral Surfaces and Terrains
- 10:00–10:30 Anne Driemel
Clustering time series under the Fréchet distance
- 10:30–11:00 Break
- 11:00–12:00 Jeff Phillips
Geometric Data Analysis: Matrix Sketching to Kernels
- 12:00–16:00 Lunch
- 16:00–16:30 Maïke Buchin
Segmentation and Classification of Trajectories
- 16:30–17:00 Csaba Toth
*Flip distances in triangulations,
rectangulations, and rectangle packings*
- 17:00–17:30 Yota Otachi
On a line-symmetric puzzle
- 17:30–18:00 Michael Dobbins
Realization spaces of arrangements of convex bodies
- 19:15 Open problem session

Tuesday, March 10, 2015

- 09:00–09:30 Olivier Devillers
Walking in a random Delaunay triangulation
- 09:30–10:00 Nicola Wolpert
*Completely randomized RRT-connect:
A case study on 3D rigid motion planning*
- 10:00–10:30 André Schulz
On perturbations of the expansion cone
- 10:30–11:00 Break
- 11:00–12:00 Donald Sheehy
Topological Data Analysis
- 12:00–16:00 Lunch
- 16:00–16:30 Rolf Klein
Fire
- 16:30–17:00 Anastasios Sidiropoulos
*Beyond the Euler characteristic:
Approximating the genus of general graphs*
- 17:00–17:30 Wolfgang Mulzer
Approximating the Colorful Carathéodory Theorem
- 17:30–18:00 Vera Sacristan Adinolfi
*Controlling modular robotic systems:
some ideas from Computational Geometry*

Wednesday, March 11, 2015

- 09:00–09:30 Natan Rubin
*Richter-Thomassen Conjecture about
Pairwise Intersecting Curves (and Beyond)*
- 09:30–10:00 Michael Kerber
The Offset Filtration of Convex Objects
- 10:00–10:30 David Kirkpatrick
Minimizing co-location potential for moving points
- 10:30–11:00 Break
- 11:00–11:30 Jonathan Shewchuk
Restricted Constrained Delaunay Triangulations
- 11:30–12:00 Peyman Afshani
Untraditional Geometric Queries
- 12:00– Lunch & Excursion

Thursday, March 12, 2015

- 09:00–09:30 Tamal Dey
Toward parameter-friendly topology inference
- 09:30–10:00 Ludmila Scharf
A Middle Curve based on Discrete Fréchet Distance
- 10:00–10:30 Maria Saumell
A Dynamic Programming Algorithm to Find Subsets of Points in Convex Position Optimizing some Parameter
- 10:30–11:00 Break
- 11:00–11:30 Franz Aurenhammer
Voronoi Diagrams of Parallel Halflines in 3D
- 11:30–12:00 Carola Wenk
On Map Construction and Map Comparison
- 12:00–16:00 Lunch
- 16:00–16:30 Ioannis Emiris
Low-quality dimension reduction and high-dimensional ANN
- 16:30–17:00 Elizabeth Munch
The Cosheaf-less Reeb-graph Interleaving Distance
- 17:00–17:30 Vin de Silva
The Cosheaf Reeb-graph Interleaving Distance
- 17:30–18:00 Nina Amenta
Surface Patches from Unorganized Space Curves

Friday, March 13, 2015

09:00–10:00 Video Session

10:00–10:30 Mark de Berg
*Faster DBSCAN and HDBSCAN
in low-dimensional Euclidean spaces*

10:30–11:00 Break

11:00–12:00 Discussions

12:00– Lunch & Departure