Workshop on Geometric Computing – Program Heraklion, January 21–25, 2013

Monday, January 21st, 2013

Morning Session

9:20 - 9:30	Introduction & Welcome Menelaos Karavelas
9:30 - 9:40	Voronoi diagrams (short introduction) Monique Teillaud
9:40 - 9:50	Algebraic tools (short introduction) Elias Tsigaridas
9:50 - 10:00	Resolving degeneracies (short introduction) Olivier Devillers
10:00 - 10:30	Coffee Break
10:30 - 11:15	On higher order (and farthest) line segment Voronoi diagrams $Evanthia\ Papadopoulou$
11:15 - 12:00	Insertions and Deletions in Delaunay Triangulations using Guided Point Location $K\!ev\!in\ Buchin$
12:00 - 13:30	LUNCH
	Afternoon Session
13:30 - 14:15	Anisotropic Voronoi diagrams and Meshes Mariette Yvinec
14:15 - 15:30	Voronoi Diagrams of Lines in Space Michael Hemmer
15:30 - 16:00	Coffee Break
16:00 - 16:45	Delaunay Triangulations of Point Sets in Closed Euclidean d -orbifolds Monique Teillaud
16:45 - 18:00	Open Problems session on Voronoi diagrams

Tuesday, January 22nd, 2013

Morning Session

9:15 - 10:00	Solving bivariate systems: Rational Univariate Representations and complexity analysis $Sylvain\ Lazard$
10:00 - 10:45	Geometric and Algebraic Computations with Rational Curves $Elias Tsigaridas$
10:45 - 11:15	Coffee Break
11:15 - 11:35	Rational parametrizations of bivariate systems and applications $Yacine \ Bouzidi$
11:35 - 11:55	Oracle-based algorithms for high-dimensional polytopes Vissarion Fisikopoulos
11:55 - 12:15	Efficient construction of the Hausdorff Voronoi diagram Panagiotis Cheilaris
12:15 - 13:45	Lunch
Afternoon Session	
13:45 - 14:30	Open Problems session on Algebraic tools
14:30 - 16:00	$Discussion \ session(s)$
16:00 - 16:30	Coffee Break

16:30 - 18:00 Discussion session(s)

Wednesday, January 23rd, 2013

Morning Session

9:30 - 10:15	Qualitative Symbolic Perturbations Olivier Devillers	
10:15 - 11:00	Perturbations in Geometric Computing Raimund Seidel	
11:00 - 11:30	Coffee Break	
11:30 - 12:15	Exact, rounded, or perturbed: How would you like your arrangements? Dan Halperin	
12:15 - 13:45	Lunch	
Afternoon Session		
13:45 - 14:30	Open Problems session on Perturbations	
14:30 - 16:00	$Discussion\ session(s)$	
16:00 - 16:30	Coffee Break	
16:30 - 18:00	$Discussion\ session(s)$	
20:00 - 22:00	WORKSHOP DINNER – Μεράστρι (Merastri), Chrysostomou 17, Heraklion, tel. (+30) 2810 221910	
12:15 - 13:45 13:45 - 14:30 14:30 - 16:00 16:00 - 16:30 16:30 - 18:00	Dan Halperin LUNCH Afternoon Session Open Problems session on Perturbations Discussion session(s) COFFEE BREAK Discussion session(s)	

Thursday, January 24th, 2013

Morning Session

9:15 - 9:35	Numeric symbolic tools for the topology of algebraic curves with simple singularities $Marc\ Pouget$
9:35 - 9:55	Numeric and symbolic tools for the topology of algebraic curves with simple singularities $Guillaume\ Moroz$
9:55 - 10:15	Counting regular triangulations Victor Alvarez
10:15 - 11:00	$Discussion \ session(s)$
11:00 - 11:30	Coffee Break
11:30 - 13:00	$Discussion \ session(s)$
13:00 - 14:30	Lunch Break
14:30 - 16:00	$Discussion\ session(s)$
16:00 - 16:30	Coffee Break
16:30 - 18:00	$Discussion \ session(s)$

Morning Session

Friday, January 25th, 2013

9:15 - 11:00	Wrap-up session
11:00 - 11:30	Coffee Break
11:30 - 13:00	Wrap-up session