



**FSP Workshop on
Computational Methods for Algebraic Spline Surfaces
September 10 - 14, 2007**

Monday, September 10, 2007

14:00 - 14:50	Rida Farouki	Rotation-minimizing frames, helical curves, and "double" Pythagorean-hodograph curves
14:50 - 15:15	Tobias Beck	Formal Desingularization of Surfaces - Jung's Method Revisited
15:15 - 15:45		coffee break
15:45 - 16:10	Peter Lebmeir	Invariants of plane algebraic curves
16:10 - 16:35	Margot Oberneder	Computational and Structural Advantages of Circular Boundary Representation
16:35 - 17:00	Daouda Niang Diatta	Computing the Topology of Algebraic Space Curves with Certainty

Tuesday, September 11, 2007

9:00 - 9:50	Tor Dokken	Heterogeneous Computing and Computational Geometry
9:50 - 10:15	André Brodtkorb	Heterogeneous Platforms and Numerical Linear Algebra
10:15 - 10:45		coffee break
10:45 - 11:10	Maria Lucia Sampoli	Geometric properties of Surfaces with Linear Normal Vectors
11:10 - 11:35	Laureano Gonzalez-Vega	Polynomial Algebra by Values: Geometric Applications
11:35 - 12:00	Gema Maria Diaz Toca	On the extraneous geometric components of the offsets to an ellipse
12:00 - 15:00		lunch
15:00 - 15:50	Wenping Wang	On Free-form Mesh Surfaces with Planar Hexagonal Faces
15:50 - 16:15	Huaiping Yang	Shape Morphing by Using T-spline Level Sets
16:15 - 16:45		coffee break
16:45 - 17:35	Andre Galligo	Resultants and the computation of intersection and selfintersection loci of parameterized surfaces.
17:35 - 18:00	Stéphane Chau	Computing the topology of 4d implicit curves by using a subdivision method.

Wednesday, September 12, 2007

9:00 - 9:50	Rimvydas Krasauskas	Rational parametrizations of 3D solids
9:50 - 10:15	Frank Sottile	Linear precision for toric patches
10:15 - 10:45		coffee break
10:45 - 11:10	Jens Gravesen	On Rationally Supported Surfaces
11:10 - 11:35	Ignacio F. de la Rua	Subresultants and rational curves
11:35 - 12:00	Giovanni Della Vecchia	Rational Spline Manifolds
12:00 - 15:00		lunch
afternoon		excursion, conference dinner

Thursday, September 13, 2007

9:00 - 9:50	Herwig Hauser	The Geometry of Algebraic Surfaces
9:50 - 10:15	Oliver Labs	A List of Challenging Visualization Problems in Real Algebraic Geometry
10:15 - 10:45		coffee break
10:45 - 11:10	Martin Aigner	The use of Gauss-Newton type methods for ℓ_p approximations.
11:10 - 11:35	Michael Barton	Computing Roots of Systems of Polynomials by Linear Clipping
11:35 - 12:00	Mario Kapl	Multiresolution analysis with weighted spline wavelets
12:00 - 15:00		lunch
15:00 - 15:50	Ligang Liu	Surface Parameterization via Aligning Optimal Local Flattening
15:50 - 16:15	Hans-Peter Schröcker	Kinematics and Algebraic Geometry
16:15 - 16:45		coffee break
16:45 - 17:10	Johan Seland	Real Time Visualization of Algebraic Surfaces
17:10 - 17:35	Bohumir Bastl	PN surfaces and their convolutions with rational surface
17:35 - 18:00	Brian Moore	Determination of the complete set of statically balanced planar four-bar mechanisms

Friday, September 14, 2007

Departure