Conference on Geometry - Theory and Applications
Vorau, June 20 to June 24, 2011

Monday, June 20, 2011

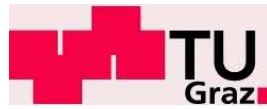| Time	Speaker	Title
14:00-14:30		Opening remarks
14:30-14:50	Brakhage, Karl-Heinz	Marching Cubes: Analytical Investigations and Adaptivity
14:50-15:10	Giannelli, Carlotta	Adaptive refinement using normalized hierarchical B-splines
15:10-15:30	Speleers, Hendrik	Numerical solution of advection-diffusion-reaction problems with Powell-Sabin B-splines
15:30-16:00		Coffee break
16:00-16:40	Manni, Carla	Generalized B-splines: from Geometry to Analysis
16:40-17:00	Erjavec, Zlatko	Minimal Surfaces In $\widetilde{SL(2,\mathbb R)}$ Geometry
		Short break
17:10-17:30	Papp, Ildiko	Iso-optics of free-form and subdivision curves in the 6-dimensional Euclidean space
17:30-17:50	Jurkin, Ema	Circular Cubics and Quartics in Pseudo-Euclidean Plane Obtained by Inversion
17:50-18:10	Lemence, Richard S.	On General Relativistic Viscous Fluid Super Quasi-Einstein Spacetimes
		Welcome reception

Tuesday, June 21, 2011, morning

Time	Speaker	Title
08:50-09:30	Chen, Falai	Splines over T-meshes and Applications
09:30-09:50	Woźny, Pawel	Bézier representation of the constrained dual Bernstein polynomials
09:50-10:10	Kleiss, Stefan	Enhancing Isogeometric Analysis by a Finite Element-Based Local Refinement Strategy
10:10-10:40		Coffee break
10:40-11:00	Hegedüs, Gabor	The Minkowskian planar 4R mechanism
11:00-11:20	Karger, Adolf	Self-motions of S.-G. type parallel manipulators.
11:20-11:40	Nawratil, Georg	Types of self-motions of planar Stewart Gough platforms
11:40-12:00	Weiss, Gunter	Line geometry and kinematics: How deep do we understand the standard model
		Lunch

Tuesday, June 21, 2011, afternoon

14:30-14:50	Boróczki, Lajos - Molnár, Emil	On isotoxal tilings in plane and in space
14:50-15:10	Tarnai, Tibor	Packing of equal circles on spherical caps
15:10-15:30	Schröcker, Hans-Peter	Discrete Laplace Cycles of Period Four
15:30-16:00		Coffee break
16:00-16:40	Stachel, Hellmuth	Some news about flexible Kokotsakis meshes
16:40-17:00	Hilario Perez, Lucia	Tensorial Representation of the Bézier Shape Deformation on Robotic Applications
		Short break
17:10-17:30	Kucher, Andreas	GPU enhanced curve approximation in multiscale pill identification
17:30-17:50	Varhaníková, Ivana	Exploration of animation curves adequate for virtual museum tour
Evening		Conference Dinner

Wednesday, June 22, 2011

08:50-09:30	Lávička, Miroslav	Rational convolutions and offsets
09:30-09:50	Kosinka, Jiri	NURBS-compatible subdivision: Schemes with Double Knots
09:50-10:10	Peternell, Martin	Conchoid surfaces of spheres
10:10-10:40		Coffee break
10:40-11:00	Stamou, Georg	Characterizations of euclidean hyperspheres under relatively normalized conves hypersurface
11:00-11:20	Joós, Antal	Covering the unit cube by n rectangular boxes
11:20-11:40	Blunck, Andrea	Binary 3x3 matrices and GQ(2,4)
11:40-12:00	Havlicek, Hans	Möbius Pairs and Pauli Operator
		Lunch
		Excursion

Thursday, June 23, 2011

08:50-09:30	Juhász, Imre	A generalization of B-spline curves
09:30-09:50	Lang, Johann	Car Side Window Kinematics
09:50-10:10	Gfrerrer, Anton	Geometry and Kinematics of a Convertible's Rear Side Window
10:10-10:40		Coffee break
10:40-11:00	Béla, Szilvia	Bounding Algebraic Curves by Fat Arcs
11:00-11:20	Bastl, Bohum	C^1 Hermite interpolation by PH cubics
11:20-11:40	Kudličková, Soňa	Comparison of the cubic spline curves
11:40-12:00	Kunkli, Roland	Skinning of circles by biarcs
		Lunch
14:30-14:50	Glaeser, Georg	Polyhedra with Planar and Skew Rhombic Faces
14:50-15:10	Schultz, Benedek	Special Nil-parallelohedra
15:10-15:30	Talata, István	A new upper bound for a finite sphere packing problem in the 6-dimensional Euclidean space
15:30-16:00		Coffee break
16:00-16:40	Prautzsch, Hartmut	Free form subdivision
16:40-17:00	Zagar, Emil	Geometric Hermite interpolation by rational Bézier spatial curves
		Short break
17:10-17:30	Fioravanti, Mario	The bisector of a low degree surface and a plane
17:30-17:50	Gruber, David	Conchoid surfaces of rational ruled surfaces
17:50-18:10	Kapl, Mario	Interpolating bubble patches on quadrilateral meshes

Friday, June 24, 2011

08:50-09:30	Volenec, Vladimir	Systematical investigation of the triangle geometry in an isotropic plane
09:30-09:50	Vörös, László	Artistic Relations of the Six-dimensional Cube
09:50-10:10	Wu, Jing	Making Bas-reliefs from Photographs of Human Faces
10:10-10:40		Coffee break
10:40-11:00	Weber, Matthias J.	Minimal area ellipses in the hyperbolic plane
11:00-11:20	Kolar-Begović,Zdenka; Kolar-Šuper, Ružića	Kiepert triangles in an isotropic plane
11:20-11:40	Loo, Tee-How	A class of real Hypersurfaces in a complex projective space
11:40-12:00	Milin Šipuš, Željka	On evolutes and evolutoids of C&S-in simply isotropic geometry