

Workshop on Approximation Theory, CAGD, Numerical Analysis and Symbolic Computation

August 26–30, 2014, Sozopol, Bulgaria

Organized by



Institute of Mathematics and Informatics Bulgarian Academy of Sciences, Sofia, Bulgaria



Doctoral Program Numerical Analysis and Symbolic Computation Johannes Kepler University, Linz, Austria



Department of Mathematics and Informatics Todor Kableshkov University of Transport, Sofia, Bulgaria

Schedule

Arrival day: August 25, 2014 Departure day: August 31, 2014 Lectures: August 26-30, 2014

Scientific Program of the Workshop

Tuesday, August 26, 2014

9:00 - 9:30	Registration, Opening, Coffee
9:30 - 10:30	Geno Nikolov On a conjecture of M. Patrick concerning Jacobi polynomials
10:30 - 11:30	Dragomir Alexov Markov type inequalities in L_2 norms with a Gegenbauer weight function
11:30 - 12:30	Vesselin Gushev Dynamic mathematical models in education
12:30 - 13:30	Lunch break
16:00 - 18:00	Sailing cruise onboard the "Royal Helena" in Sozopol bay

Wednesday, August 27, 2014

9:00 - 10:00	CHRISTOPH KOUTSCHAN Symbolic computation in Knot theory
10:00 - 10:30	Coffee break
10:30 - 11:30	LIANGJIE YE Computer algebra algorithms for proving Theta function identities
11:30 - 12:30	Jakob Ablinger Some new aspects about nested sums and iterated integrals
12:30 - 13:30	Lunch break
16:00 - 17:00	IVAN GADJEV Approximation of functions by linear positive operators
17:00 - 18:00	Borislav Draganov Simultaneous approximation by the Bernstein and Kantorovich operators

Thursday, August 28, 2014

9:00 - 10:00	GÁBOR KISS THB-splines: theory and applications
10:00 - 11:00	STEFAN TAKACS A robust multigrid method for isogeometric analysis and its analysis
11:00 - 11:30	Coffee break
11:30 - 12:30	CLEMENS HOFREITHER Analysis of geometric multigrid methods for isogeometric analysis
12:30 - 13:30	IRINA GEORGIEVA AND CLEMENS HOFREITHER Approximation based on Radon projections
13:30 - 14:30	Lunch break
16:30 - 18:00	Open discussions
19:30 -	Official dinner

Friday, August 29, 2014

9:00 - 10:00	Ognian Kassabov Congruence of minimal surfaces
10:00 - 11:00	Krassimira Vlachkova Extremal scattered data interpolation in \mathbb{R}^3 using tensor product Bézier surfaces
11:00 - 11:30	Coffee break
11:30 - 12:30	STANISLAV HARIZANOV TBA
12:30 - 13:30	CLEMENS HOFREITHER AND IRINA GEORGIEVA The Poisson equation as an interpolation problem based on Radon projections
13:30 - 14:30	Lunch break
16:30 - 18:00	Open discussions

Saturday, August 30, 2014

9:30-11:00 Open discussions & Closing