



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



August 25 - 30, 2013, Sozopol, Bulgaria

## Organized by

Institute of Mathematics and Informatics, Bulgarian Academy of Sciences  
Doctoral Program Numerical Analysis and Symbolic Computation (JKU)  
Todor Kableshkov University of Transport, Sofia

## Schedule

Arrival day	August 25, 2013
Departure day	August 30, 2013
Lectures	August 26-29, 2013

## Supported by



## Program

### Monday, Aug 26, 2013

9:30 – 10:30	Veronika Pillwein	Introducing the Power of Symbolic Computation
10:30 – 11:00	<i>Coffee Break</i>	
11:00 – 12:00	Geno Nikolov and Alexander Alexandrov	On a Conjecture of M. Patrick Concerning Jacobi Polynomials
12:00 – 13:00	Dragomir Alexov	An Approach for Derivation of $L_2$ Markov Inequalities
	<i>Lunch break</i>	
15:30 –	Open discussions	
20:00	<i>Welcome party</i>	

### Tuesday, Aug 27, 2013

9:30 – 10:30	Stefan Takacs	Multigrid Methods for Some Classes of Saddle-Point Problems
10:30 – 11:00	<i>Coffee Break</i>	
11:00 – 12:00	Clemens Hofreither and Irina Georgieva	Cubature Rules for Harmonic Functions Based on Radon Projections
12:00 – 13:00	Georg Grasegger	Radical Solutions of Algebraic Ordinary Differential Equations
	<i>Lunch break</i>	
15:30 –	Open discussions	

### Wednesday, Aug 28, 2013

9:30 – 10:30	Vesselin Gushev	Nonlinear Least Squares Fit with <i>Mathematica</i>
10:30 – 11:00	<i>Coffee Break</i>	
11:00 – 12:00	Georgi Iliev	”Best” Convex Interpolation in $\mathbb{R}^2$ and $\mathbb{R}^3$
12:00 – 13:00	Krassimira Vlachkova	Interactive Visualization and Comparison of Triangular Subdivision Surfaces Using Java 3D
	<i>Lunch break</i>	
14:30 –	<i>Excursion</i>	

### Thursday, Aug 29, 2013

9:30 – 10:30	Rumen Uluchev	B-splines. Applications. Generalizations
10:30 – 11:00	<i>Coffee Break</i>	
11:00 – 12:00	Parvan Parvanov	TBA
12:00 – 13:00	Vasil Kolev	Orthogonal Wavelet and Their Multiwavelet Filters
	<i>Lunch break</i>	
15:30 –	Open discussions Closing	