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

September 6 - 11, 2016, Sofia, Bulgaria

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

Schedule

Arrival day	September 6, 2016
Departure day	September 11, 2016
Lectures	September 7-10, 2016

Venue

Institute of Mathematics and Informatics
Acad G. Bonchev Str. 8
Lecture Room 403

Workshop Program

Wednesday, Sep 7, 2016

9:00 – 9:30	Registration, Opening, Coffee	
9:30 – 10:15	Alexander Alexandrov	Proof of a Conjecture of M.Patrick Concerning Jacobi Polynomials
10:15 – 11:00	Dragomir Alexov	Markov Type Inequalities in L_2 Norms with a Gegenbauer Weight Function
11:00 – 11:30	Coffee Break	
11:30 – 12:15	Krassimira Vlachkova	Algorithms for Comparison for Coincidence of Bézier Curves and Surfaces
	Lunch Break	
13:30 – 14:15	Stefan Takacs	Approximation Error Estimates for B-splines and Applications to Solvers
14:15 – 15:00	Jakob Ablinger	Algorithms for Nested Sums and Iterated Integrals
18:30 –	Official dinner	at the Restaurant "SkaraBar 3 Polygraphia"

Thursday, Sep 8, 2016

9:30 – 10:15	Borislav Draganov	On a Method for Estimating the Rate of Approximation of Linear Operators
10:15 – 11:00	Clemens Hofreither Irina Georgieva	New Results on Best Approximation with Low-rank Matrices
11:00 – 11:30	Milen Borisov (poster presentation)	Extremum Seeking in a Functional Differential Model of a Bioreactor
	Coffee Break	
11:30 – 12:15	Gergana Bencheva	Haematopoietic Stem Cells Migration Revisited - Chemotaxis Model, Numerical Approaches, Open Issues
12:15 – 13:00	Peter Rashkov	A Simple Kinetic Model For Hormesis in an Onco-Targeted Signal Pathway
	Lunch break	
15:00 – 17:00	Open discussions	

Friday, Sep 9, 2016

9:30 – 10:15	Evgenija Popova	Fourier- Motzkin Elimination Applied to Linear Systems with Interval Parameters
10:15 – 11:00	Rumen Uluchev	Finite Blaschke Products in Approximations
11:00 – 11:30	Coffee break	
11:30 –11:55	Ivan Georgiev	HPC Simulations based on CT Data Geometry
11:55 – 12:15	Vencislav Pirinski	Measurement Applications based on Laser Scanning High Resolution Polygonal Models
12:15 – 13:00	Stanislav Harizanov	Fast Algorithm for Exact Solving of Quadratic Optimization Problem in the Nodes of the Unit Cube
	Lunch Break	
14:30 –	Open Discussions	

Saturday, Sep 10, 2016

10:00 –	Open discussions + Closing	
12:00 –	Walk in Sofia and visit to "Sofia History Museum"	