Scientific Program of the Conference

Monday, June 3, 2019

Opening and Morning Session		Chair: KAMEN IVANOV
9:30 - 9:40	Opening of the Conference	
9:40 - 10:30	BLAGOVEST SENDOV: On Rolle's theorem for complex polyno	omials
11:00 - 11:30	HRISTO SENDOV: Polar convexity and critical points of p	oolynomials
11:30 - 12:00	LOZKO MILEV: Sharp estimates for the critical points with Laguerre weight	of oscillating polynomials
12:00 - 12:30	NIKOLA NAIDENOV: Further results on the zeros of the deri polynomials with Laguerre weight	vative of oscillating
Afternoon Sessio	on	Chair: Geno Nikolov
16:00 - 16:30	Ognyan Kounchev: On polyharmonic interpolation of data	on parallel hyperplanes
17:00 - 17:30	HERMANN RENDER: On interpolation with a class of bivaria the plane	ate polysplines for data in
17:30 - 18:00	VLADIMIR KOSTOV: Descartes' rule of signs and moduli of a	roots

IX

Tuesday, June 4, 2019

Morning Session	Chair: Blagovest Sendov	
9:00 - 9:50	GITTA KUTYNIOK: The approximation power of deep neural networks: theory and applications	
10:00 - 10:30	Heinz-Joachim Rack: Explicit solution, for $n = 6$, to a Markov-type extremal problem initiated by Schur	
11:00 - 11:30	THEODORE KILGORE: Weighted approximation with Bernstein-Chlodovsky operators	
11:30 - 12:00	GENO NIKOLOV: A discrete Markov-Bernstein inequality for sequences and polynomials	
12:00 - 12:30	ALETTA JOOSTE: Recurrence equations involving different orthogonal polynomial sequence	
Afternoon Sessio	n Chair: Borislav Draganov	
15:30 - 16:00	Heiner Gonska: Remarks on classical Kantorovich operators	
16:00 - 16:30	MARGARETA HEILMANN: Some results for linking Baskakov-type operators	
17:00 - 17:30	ULRICH ABEL: Voronovskaja type theorems for positive linear operators related to squared basis functions	
17:30 - 18:00	ANA-MARIA ACU: Voronovskaya type theorems for certain operators	

Wednesday, June 5, 2019

Morning Session

Chair: Hristo Sendov

9:00 – 9:50 Dany Leviatan: Visiting Whitney

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Thursday, June 6, 2019

Morning Session	Chair: Pencho Petrushev
9:00 - 9:50	JEAN-MARIE MIREBEAU: Numerical methods for the discretization of anisotropic PDEs on cartesian grids
10:00 - 10:30	PETER BINEV: Fast algorithms for adaptive approximation on conforming partitions
11:00 - 11:30	SERGEI KALMYKOV: On some Bernstein-type inequalities for rational functions
11:30 - 12:00	ALI ARAL: Operators preserving exponential functions in approximation theory
12:00 - 12:30	ANA AVDZHIEVA: Definite quadrature formulae of order three
Afternoon Sessio	n Chair: Peter Binev
15:30 - 16:00	PENCHO PETRUSHEV: Gaussian bound for the heat kernel induced by prolate spheroidal wave functions with applications
16:00 - 16:30	GEORGE KYRIAZIS: Product Besov and Triebel-Lizorkin spaces with application to nonlinear approximation
17:00 - 17:30	KAMEN IVANOV: Non-linear approximation in $BMO(\mathbb{S}^{d-1})$

Friday, June 7, 2019

Morning Session

Chair: DANY LEVIATAN

9:00 - 9:50	VILMOS TOTIK: Polynomial inequalities on general sets
10:00 - 10:30	IVAN GADJEV: Weighted approximation of functions in L_p -norm by some Kantorovich operators
11:00 - 11:30	RUMEN ULUCHEV: On Hardy L_2 inequality in certain finite dimensional spaces
11:30 - 12:00	BORISLAV DRAGANOV: Simultaneous approximation by Bernstein polynomials and their integer forms
12:00 - 12:15	Closing of the Conference