

International Conference “Constructive Theory of Functions”
June 11-17, 2016, Sozopol, Bulgaria



Conference Program



Conference Program, June 12, 2016

Morning Session

8:30 – 8:45	<i>Opening</i>	
8:45 – 9:35	Heiner Gonska: Grüss-Voronovskaya estimates for Bernstein-type polynomials	13
9:40 – 10:05	Margareta Heilmann: A nice representation for a link between Bernstein-Durrmeyer and Kantorovich operators	14
10:10 – 10:35	Borislav Draganov: Estimates of the simultaneous approximation by the Bernstein and Kantorovich operators	9

10:40 – 11:10 *Coffee Break*

11:10 – 11:35	George Anastassiou: Self adjoint operator Korovkin type and polynomial direct approximations with rates	5
11:40 – 12:15	Gancho Tachev: Voronovskaja’s theorem for functions with exponential growth	25

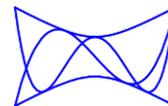
Afternoon Session

15:30 – 15:55	Denka Kutzarova: An X-greedy algorithm with weakness parameters	18
16:00 – 16:25	Asen Dontchev: Nonsmooth duals for constrained best approximations	9

16:30 – 17:00 *Coffee Break*

17:00 – 17:25	Ivan Gadjev: Approximation of functions in L_p -norm by Kantorovich modifications of some classical operators	12
17:30 – 18:00	Teodora Zapryanova: On the iterates of continuous linear operators preserving constants and Jackson type operator $G_{s,n}$	26

19:30 – 20:30 *Reception*



Conference Program, June 13, 2016

Morning Session

8:30 – 9:20	Feng Dai: Moduli of smoothness and polynomial approximation on spheres and balls	7
9:30 – 10:20	Pencho Petrushev: Nonlinear n-term approximation of harmonic functions from discrete Newtonian potentials	21

10:30 – 11:00

Coffee Break

11:00 – 11:25	Kamen Ivanov: Highly localized kernels on the sphere induced by discrete Newtonian potentials	15
11:30 – 11:55	George Kyriazis: Homogeneous spaces of distributions associated with operators	18

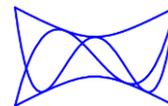
Afternoon Session

15:30 – 15:55	Peter Dragnev: On the checkmark function polynomial approximation	10
16:00 – 16:25	Peter Boyvalenkov: Universal lower bounds for energy of codes in polynomial metric spaces	7

16:30 – 17:00

Coffee Break

17:00 – 17:25	Alexander Pushnitski: Best rational approximation of functions with logarithmic singularities	22
17:30 – 17:55	Arthur Danielyan: Rubel's problem on bounded analytic functions	8
18:00 – 18:15	Thais Jordao: General types of spherical mean operator and K-functionals of fractional orders	16



Conference Program, June 14, 2016

Morning Session

8:30 – 9:20	Szylard Revesz: A potential theoretic minimax problem on the torus	23
9:30 – 9:55	Bela Nagy: A potential theoretic minimax problem on the torus. II	19
10:00 – 10:25	Blagovest Sendov: Refinement of Gauss-Lucas theorem for polynomials with real coefficients	24

10:30 – 11:00

Coffee Break

11:00 – 11:25	Vladimir Kostov: On the partial theta function	17
11:30 – 11:55	Nikola Naidenov: Some exact inequalities for polynomials on the standard triangle	19

Afternoon Session

15:30 – 15:55	Alexander Alexandrov: Proof of a conjecture of M. Patrick about Jacobi polynomials	4
16:00 – 16:25	Arpad Baricz: Bounds for the radii of univalence of some special functions	6

16:30 – 17:00

Coffee Break

17:00 – 17:25	Yauheni Rouba: On rational Fourier series for some elementary functions	23
17:30 – 17:55	Ana Avdzhieva: Asymptotically optimal definite quadrature formulae of 4-th order	6



Conference Program, June 15, 2016

Morning Session

8:30 – 9:20	Oleg Davydov: Approximation by multivariate piecewise polynomial splines	8
9:30 – 9:55	Markus Passenbrunner: Orthogonal projection operators onto spline spaces	21
10:00 – 10:25	Valery Zheludov: Local splines on non-uniform grids generating real-time wavelet transforms	27

10:30 – 11:00

Coffee Break

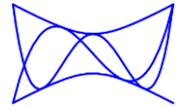
11:00 – 11:25	Kevin Ford: Permutations fixing a k -set	11
11:30 – 11:55	Stanislav Harizanov: Numerical approximation of the inverse principal square root of an M -matrix, using univariate polynomial techniques	13
12:00 – 12:25	Ulrich Abel: Asymptotic properties of Chlodovsky polynomials	3
12:30 – 12:55	Irina Georgieva: An algorithm for low-rank approximation of bivariate functions using splines (poster)	12

15:30 – 19:00

Excursion

20:00

Conference Dinner



Conference Program, June 16, 2016

Morning Session

8:30 – 9:20	Alexei Shadrin: Markov-type inequalities and their applications	25
9:30 – 9:55	Geno Nikolov: Markov-type inequality in the L_2 norm induced by Laguerre weight	20
10:00 – 10:25	Sergei Kalmykov: Inequalities for series in q-shifted factorials and q-Gamma functions	17

10:30 – 11:00

Coffee Break

11:00 – 11:25	Marina Deikalova: Jacobi translation and Nikol'skii inequality for algebraic polynomials on a closed interval	8
11:30 – 11:55	Maria Filatova: Approximation of the differentiation operator by linear bounded operators on the class of smooth functions in the space L_2 on the half-line	11
12:00 – 12:25	Inna Nikolova: The derivatives of polynomials as a linear combination of finite differences	21
12:30 – 12:40	<i>Closing of CTF-2016</i>	