Scientific Program of the Conference CTF-2016

Sunday, June 12, 2016

Opening and Morning Session *Chair:* GENO NIKOLOV

8:30 – 8:45 Opening of the Conference CTF-2016

8:45 – 9:35 HEINER GONSKA:
Grüss-Voronovskaya estimates for Bernstein-type polynomials

9:40 – 10:05 MARGARETA HEILMANN:
A nice representation for a link between Bernstein-Durrmeyer and Kantorovich operators

10:10 – 10:35 BORISLAV DRAGANOV:
Estimates of the simultaneous approximation by the Bernstein and Kantorovich operators

11:10 – 11:35 GEORGE ANASTASSIOU:
Self adjoint operator Korovkin type and polynomial direct approximations with rates

11:40 – 12:15 IRINA GEORGIEVA:
An algorithm for low-rank approximation of bivariate functions using splines (poster)

Afternoon Session *Chair:* BORISLAV DRAGANOV

15:30 – 15:55 DENKA KUTZAROVA:
An X-greedy algorithm with weakness parameters

Chair: RUMEN ULUCHEV

17:00 – 17:25 IVAN GADJEV:
Approximation of functions in L_p-norm by Kantorovich modifications of some classical operators

17:30 – 17:55 TEODORA ZAPRYANOVA:
On the iterates of continuous linear operators preserving constants and Jackson type operator Gs, n

Monday, June 13, 2016

Morning Session   *Chair:* Alexei Shadrin

8:30 – 9:20   Feng Dai:
Moduli of smoothness and polynomial approximation on spheres
and balls

9:30 – 10:20   Pencho Petrushev:
Nonlinear n-term approximation of harmonic functions from
discrete Newtonian potentials

Chair: Pencho Petrushev

11:00 – 11:25   Kamen Ivanov:
Highly localized kernels on the sphere induced by discrete
Newtonian potentials

11:30 – 11:55   George Kyriazis:
Homogeneous spaces of distributions associated with operators

Afternoon Session   *Chair:* George Kyriazis

15:30 – 15:55   Peter Dragnev:
On the checkmark function polynomial approximation

16:00 – 16:25   Peter Boyvalenkov:
Universal lower bounds for energy of codes in polynomial metric
spaces

Chair: Borislav Draganov

17:00 – 17:25   Alexander Pushnitski:
Best rational approximation of functions with logarithmic
singularities

17:30 – 17:55   Arthur Danielyan:
Rubel's problem on bounded analytic functions

18:00 – 18:25   Thais Jordao:
General types of spherical mean operator and K-functionals of
fractional orders

Tuesday, June 14, 2016

Morning Session   *Chair:* KAMEN IVANOV

8:30 – 9:20   SZYLARD REVESZ:
A potential theoretic minimax problem on the torus

9:30 – 9:55   BELA NAGY:
A potential theoretic minimax problem on the torus. II

10:00 – 10:25   BLAGOVEST SENDOV:
Refinement of Gauss-Lucas theorem for polynomials with real
coefficients

11:00 – 11:25   VLADIMIR KOSTOV:
On the partial theta function

11:30 – 11:55   NIKOLA NAIDENOV:
Some exact inequalities for polynomials on the standard triangle

Afternoon Session   *Chair:* SZYLARD REVESZ

15:30 – 15:55   ALEXANDER ALEXANDROV:
Proof of a conjecture of M. Patrick about Jacobi polynomials

16:00 – 16:25   ARPAD BARICZ:
Bounds for the radii of univalence of some special functions

16:30 – 16:55   ANA AVDZHIEVA:
Asymptotically optimal definite quadrature formulae of 4-th
order

Wednesday, June 15, 2016

Morning Session   *Chair:* FENG DAI

8:30 – 9:20   OLEG DAVYDOV:
Approximation by multivariate piecewise polynomial splines

9:30 – 9:55   MARKUS PASSENBRUNNER:
Orthogonal projection operators onto spline spaces

10:00 – 10:25   VALERY ZHELUDOV:
Local splines on non-uniform grids generating real-time wavelet
transforms

                                                          Chair: HEINER GONSKA

11:00 – 11:25   KEVIN FORD:
Permutations fixing a k-set

11:30 – 11:55   STANISLAV HARIZANOV:
Numerical approximation of the inverse principal square root of
an M-matrix, using univariate polynomial techniques

12:00 – 12:25   ULRICH ABEL:
Asymptotic properties of Chlodovsky polynomials

12:30 – 12:55   GANCHO TACHEV:
Voronovskaja's theorem for functions with exponential growth

Thursday, June 16, 2016

Morning Session and Closing   *Chair:* OLEG DAVYDOV

8:30 – 9:20   ALEXEI SHADRIN:
Markov-type inequalities and their applications

9:30 – 9:55   GENO NIKOLOV:
Markov-type inequality in the L_2 norm induced by Laguerre weight

10:00 – 10:25   SERGEI KALMYKOV:
Inequalities for series in q-shifted factorials and q-Gamma functions

                                   Chair: ALEXANDER PUSHNITSKI

11:00 – 11:25   MARINA DEIKALOVA:
Jacobi translation and Nikol'skii inequality for algebraic polynomials on a closed interval

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

12:00 – 12:10   Closing of the Conference CTF-2016