June 17

17.30-19.00 Registration

June 18

9.30-11.00 Registration
11.00-11.30 Coffee Break

11.30-12.00 Opening Ceremony

Plenary Lecture  Chairman Maria Skopina

12.00-13.00 Marcin Bownik (co-authored with J. Lemvig), “Wavelets for non-expanding dilations and the lattice counting estimate”

13.00 – 15.00 Lunch

Section A: Multiresolution and wavelet methods  Chairman Eugene Postnikov

15.00-15.40 B. Somanathan, “HAAR 2D wavelet for endometrial cancer using MRI images”
15.40-15.55 Coffee Break
15.55-16.35 Pammy Manchanda, “Nonuniform multiresolution analysis and vector valued wavelets”
16.40-17.00 Madan Dixit (co-authored with A. Pathak, P. Yadav), “Convolution for continuous quaternion wavelet transform”
17.05-17.25 Ashish Pathak, “Asymptotic approximation of Continuous Wavelet Transform”
17.30-17.50 Juan Miguel Medina (co-authored with Bruno Cernuschi-Frias), “Some results on the support of the Continuous Wavelet Transform”

Section B: Signal Analysis and Processing  Chairman Lev Novikov

15.00-15.40 Abul Hasan Siddiqi, “Application of wavelets and their variants to tomography”
15.40-15.55 Coffee Break
15.55-16.15 Valeriy Zheludev (co-authored with A. Averbuch and P. Neittaanmäki), “Periodic spline-based frames”
16.20-16.40 Oleg Kosogorov (co-authored with A. A. Makarov), “On the application of hierarchical systems of B-splines to compression of radar data”
16.45-17.05 Anatoliy Gurjanov, “Recognition of useful multiple frequency signal received with prevailing additive noise by means of Sampling Fast Fourier Transform”
17.10-17.30 Alexander Guryanov, TBA
17.35-17.55 Oleksandr Fomin (co-authored with Vitaliy Pavlenko), “Volterra kernels wavelet-transformation for features space dimension reduction in nonlinear diagnostic systems”

Section C: Harmonic Analysis  Chairman Martin Grigoryan

15.00-15.40 Valentin Skvortsov, “Generalized integrals for Banach space valued and Riesz space valued functions and some application in harmonic analysis”
15.40-15.55 Coffee Break
15.55-16.35 Boris Golubov (co-authored with S.S.Volosivets), “Multiplicative Fourier transforms belonging to Besov-Lipschitz or Herz spaces”
16.40-17.00 Andi Kivinukk, “On approximation processes defined by a cosine operator function”
17.05-17.25 Giancarlo Travaglini (co-authored with L. Brandolini, L. Colzani, G. Gigante and M.R. Tupputi), “L^p estimates for the number of lattice points in a convex body”

18.15 Welcome Party
June 19

Plenary Lecture  
Chairman Valeriy Zheludev

10.00-11.00 Amir Averbuch (co-authored with P. Neittaanmäki and V. Zheludev), “Application of spline-based frames for image restoration”

11.00-11.30 Coffee Break

Section A: Greedy Algorithms  
Chairman Artur Sahakian

11.30-12.10 Alexander Petukhov (co-authored with I. Kozlov), “Greedy algorithm for subspace clustering from corrupted and incomplete data”
12.15-12.55 Martin Grigoryan, “Greedy algorithm and modifications of functions”

13.00 – 15.00 Lunch

Section A: Wavelet Methods  
Chairman Abul Hasan Siddiqi

15.00-15.40 Eugene Postnikov (co-authored with E.A. Lebedeva and A.I. Lavrova), “Computational realization of CWT inversion without the admissibility condition and its applications”
15.45-16.25 Maria Perel (co-authored with E.Gorodnitskiy, Yu Geng, Ru-Shan Wu), “Gaussian packets summation in the inhomogeneous medium based on Poincaré wavelets and its application to seismics”

Coffee Break

17.00-17.20 Nagma Irfan (co-authored with A.H. Siddiqi), “Application of wavelets in numerical evaluation of Hankel transforms arising in astronomy”
17.25-17.45 Mahdieh Tahami (co-authored with A. Askari Hemmat and S.A. Yousefi), “Numerical solution of two-dimensional first kind Fredholm integral equations by using Legendre wavelet of degree 2”
17.50-18.10 Vadoud Najjari, “Hyperbolic Archimedean copulas by wavelets”
18.15-18.35 Mohammad Shahriri (co-authored with Behzad Nemati Saray), “Mixed finite difference and multwavelet Galerkin methods for Benjamin-Bona-Mahony”

Section C: Approximation Theory  
Chairman Boris Golubov

15.00-15.40 Vladimir Zhuk, “On the Jackson type inequalities for best approximations of periodic functions”
15.45-16.05 Pavel Andrianov (co-authored with Maria Skopina), “On Jackson-type inequality for multivariate Haar polynomials”
16.10-16.30 Lev Ikhsanov, “Estimate of a function orthogonal to constant piecewise ones by the second modulus of continuity”

Coffee Break

17.00-17.20 Aleksandr Krivoshein (co-authored with Maria Skopina), “On Kotelnikov-type approximation theorems”
17.25-17.45 Gert Tamberg, “On approximation properties of generalized sampling operators”
17.50-18.10 Olga Orlova (co-authored with Gert Tamberg), “On approximation properties of generalized Kantorovich-type sampling operators”
June 20

Section A: Wavelet Frames  Chairman Shiv Kaushik

10.20-11.00 Martin Ehler, “On the multiresolution structure of wavelet frames”
Coffee Break
11.30-12.10 Elena Lebedeva, “A refinement of periodic uncertainty principle”

13.00 – 15.00 Lunch

15.00-15.40 Andreas Heinecke (co-authored with Z. Fan and Z. Shen), “Duality for frames and multivariate wavelet frame construction”
Coffee Break
16.10-16.30 Xiaosheng Zhuang (co-authored with B. Han, Q.T. Jiang, and Z. Shen), “Canonical quincunx tight framelets”
17.00-17.20 Mahdieh Fatemidokht (co-authored with A. Askari Hemmat), “Dual shearlet frame on L^2(Q^2_p)”

Section B: Signal Analysis and Processing  Chairman Pammy Manchanda

15.00-15.40 Ilya Krishtal (co-authored with A. Aldroubi), “Spectral identification in dynamical sampling”
Coffee Break
16.10-16.50 Yuri Demjanovich, “A new approach to spline-wavelet decompositions of discrete flows”

Section C: Splines  Chairman Yuri Volkov

15.00-15.40 Alexander Rozhenko, “Radial basis functions in multivariate approximation”
Coffee Break
16.35-16.55 Stanislav Primakov, “On quintic spline construction’s algorithms”
17.00-17.20 Anastasia Ulitskaya, “On the preservation of the logarithmic convexity by positive operators”

Poster Section
12.15-13.00
Irina Burova (co-authored with A. Doronina), “Properties of the integro-differential splines of fifth order”
Anna Saksa (co-authored with Andi Kivinukk), “Approximation by Rogosinski-type processes and the cosine operator functions”
Boris Shumilov (co-authored with Zh. Abdykalyk kyzy), “Displaced multiwavelets and splitting algorithms”
Aleksandr Krivoshein, Symmetric MRA-based wavelet frames”

June 21

Plenary Lecture  Chairman Marcin Bownik

10.00-11.00 Vladimir Protasov, “Regularity of wavelets and subdivisions: a recent progress”
11.00-11.30 Coffee Break

Section A: Wavelets on Locally Compact Groups  Chairman Valentin Skvortsov

11.30-12.10 Alexander Barg (co-authored with Maksim Skriganov), “Association schemes on zero-dimensional groups and wavelet-like functions related to them”
13.00 – 15.00 Lunch

15.00-15.40 Yuri Farkov (co-authored with E.A. Rodionov), “Characterization of refinable step functions on Vilenkin groups”
Coffee Break
16.00-16.40 Sergey Lukomsii (co-authored with A.M. Vodolazov), “How to construct wavelets on local fields?”
16.45-17.05 Gleb Berdnikov (co-authored with Julia S. Kruss), “Discrete dynamic systems in wavelet analysis on Vilenkin groups”
17.10-17.30 Firdous A. Shah, “Wavelets associated with nonuniform multiresolution analysis on local fields of positive characteristic”

Section B: Wavelet Transforms and Subdivision  Chairman Vladimir Protasov

15.00-15.20 Andrey Voynov, “Multivariate refinement equations and subdivisions in $L_p$-spaces”
Coffee Break
16.10-16.30 Ekaterina Pleshcheva, “Construction of biorthogonal multiwavelet bases”
17.00-17.20 Ashish Pathak, “Asymptotic approximation of Continuous Wavelet Transform”

Section C: Approximation Theory  Chairman Andi Kivinukk

15.00-15.40 Sergey Platonov, “On problems of approximation of functions on infinite-dimensional torus”
Coffee Break
15.45-16.25 Oleg Vinogradov, “Recent achievements in the problem of constants in the Jackson type inequalities”
16.30-16.50 Elena Radzievskaya, “The mean value theorem”
16.55-17.15 Bayaz Daraby (co-authored with Z. Solimani), “Finite dimensional fuzzy normed spaces”
June 23

Plenary Lecture Chair: Alexander Petukhov

10.00-11.00 Mikhail Tchobanou,
“New requirements and new opportunities for multi-dimensional signals processing”
11.00-11.30 Coffee Break

Section A: Frames Chair: Sergey Platonov

11.30-12.10 Oleg Reinov, “A way to generalize a notion of frame”
12.15-12.55 Shiv Kaushik (co-authored with Khole Timothy Poumai), “Frames and non linear approximations”
13.00-13.20 Pavel Terekhin, “Banach frames in the affine synthesis problem”

Section C: Splines Chair: Sergey Lukomskii

11.30-12.10 Yuri Volkov, “Convergence of spline interpolation – review”
12.15-12.55 Valery Miroshnichenko, “Exact error bounds for the best approximation by cubic splines”

13.25 Closing