PROGRAM (CURRENT VERSION 23.08.2019)

	August 26, Monday	***Novosibirsk State University, Pirogova street, 2, room 120a***
8:30-9:30	***Registartion***	
9:30-10:00	***Openening Ceremony***	Group photo.
10:05-10:35	Sergey Godunov, Dmitry Klyuchinsky Sobolev Institute of Mathematics, Novosibirsk Novosibirsk State University	A new 1D linearized finite-difference model of fluid dynamics with entropy nondecreasing and its extension to 2D case
10:40-11:10	Jin Cheng Fudan University, China	The conditional stability estimates for inverse problems and Tikhonov regularization
11:15-11:40	**Coffee break**	
11:40-12:10	Mikhail Guzev Institute for Applied Mathematics, Vladivostok	Heat transfer in the harmonic chain
12:15-12:45	Dinh Nho Hao Hanoi Institute of Mathematics, Vietnam	Stability results for backward time-fractional parabolic equations
12:50-13:20	Vladimir Vasin, Grigory Skorik N.N. Krasovskii Institute of Mathematics and Mechanics, Ekaterinburg	A new approach to solving the deconvolution problem in well test interpretation
13:25-15:00	**Lunch**	
15:00-15:30	Igor Marchuk Novosibirsk State University	Problems of capillary hydrodynamics and heat transfer
15:35-16:05	Ivan Oseledets Skolkovo Institute of Science and Technology, Moscow	Numerical modelling and machine learning
16:10-16:30	**Coffee break**	
16:30-17:00	Dinghua Xu Zhejiang Sci-Tech University, China	Mathematical modeling and numerical simulation in functional clothing designforward and inverse problems approaches
17:05-17:35	Andrey Palyanov A.P. Ershov Institute of Informatics Systems, Novosibirsk	On the problems associated with computational modelling of neuroinformational processes within the C. elegans organism
17:40-18:10	Weinian Zhang Sichuan University, China	An algorithm for Melnikov functions and applications
	August 27, Tuesday	***Novosibirsk State University, Pirogova street, 1, room 2328***
9:00-9:30	Shuai Lu Fudan University, China	Multi-frequency inverse acoustic source problems
9:35-10:05	Vladimir Uchaikin Ulyanovsk State University	Variational-Interpolation (VINT) method with application to inverse problem solving
10:10-10:40	Huilin Xu Gannan Normal University, China	Construction and analysis of stable finite difference scheme for numerical differentiation
10:45-11:10	**Coffee break**	
11:10-11:55	Ivan Oseledets (Conference Lecture) Skolkovo Institute of Science and Technology, Moscow	Mathematics of neural networks
12:00-12:30	Mikhail Kokurin Mari State University, Yoshkar-Ola	Generalized solvability of classes of ill-posed nonlinear integral equations
12:35-13:05	Yury Laevsky, Tatiana Nosova Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk	Some mathematical problems of filtration combustion
13:10-14:30	**Lunch**	
14:30-15:00	Vladimir Penenko Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk	Variational methods for solving inverse continuation problems
15:05-15:35	Tangwei Liu East China University of Technology	Some parameters estimation problems in marine geophysics
15:40-16:10	Kazizat Iskakov L.N. Gumilyov Eurasian National University, Astana, Kazakhstan	Algorithms for solving inverse problems using data from georadar hardware
16:10-16:30	**Coffee break**	
16:30-18:00	**Section I, room 2322**	**Section II, room 2328**
	August 28, Wednesday	***Novosibirsk State University, Pirogova street, 1, room 2328***
9:00-9:30	Alexander Konovalov RFNC - Zababakhin VNIITF, Snezhinsk	Identification methods with compression in inverse tomography problems
9:35-10:05	Gennady Mikhailov, Evgeniya Kablukova, Vasiliy Ogorodnikov, Sergey Prigarin Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk	Construting a numerially statistial model of a homogeneous random field with the given distribution of the integral over one of the phase coordinates
10:10-10:40	Boris Kargin Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk	Weighted Statistical Modeling in the Problems of Atmospheric and Oceanic Optics
10:45-11:10	**Coffee break**	
11:10-11:40	Valery Ilyin Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk Novosibirsk State University	Parallel technologies of the integrated computational environment for optimization methods to solve inverse problems
11:45-12:15	Andrey Karchevsky Sobolev Institute of Mathematics, Novosibirsk	Solutions of the Cauchy problem for the elliptic equation and the heat equation with data on a time-like boundary
12:20-12:50	Victor Debelov Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk	Light meshes: soft shadows simulation and acceleration of Whitted-like ray tracing
12:55-14:30	**Lunch**	
14:30-16:10	**Section V, room 2322**	**Section VI, room 2328**
14:30-15:00		
15:05-15:35		
15:40-16:10		
16:10-16:30	**Coffee break**	
16:30-18:00	**Section VII, room 2322**	**Section VIII, room 2328**
	August 29, Thursday	***Novosibirsk State University, Pirogova street, 1, room 2328***
9:00-9:30	Karl Sabelfeld Institute of Computational Mathematics and Mathematical Geophysics	Randomization of supercomputer simulations involving big data manipulations

9:35-10:05	Vladimir Krupchatnikov, Dina Yakshina, Gennady Platov, Yulia Martynova, Irina Borovko Institute of Computational Mathematics and Mathematical Geophysics, Siberian Regional Scientific Research Hydrometeorological Institute, Institute for Monitoring of Climatic and Ecological Systems, Novosibirsk State University	On the interaction of atmospheric dynamics Arctic and mid-latitudes under climate change
10:10-10:40	Zhousheng Ruan East China University of Technology, China	Identification of initial condition in one-dimensional integer/fractional order diffusion equation by one point observation data
10:45-11:10	**Coffee break**	
11:10-11:40	Xingjun Luo Gannan Normal University, China	A multiscale projection method for solving nonlinear integral equations
11:45-12:15	Yu Jiang Shanghai University of Finance and Economics, China	Inversion analysis for magnetic resonance elastography
12:20-13:05	Vladimir Belonosov (Conference Lecture) Sobolev Institute of Mathematics, Novosibirsk	Inverse spectral problems
13:10-14:30	**Lunch**	
14:30-15:00	Jijun Liu Southeast University, China	Recovering the weight function in distributed order fractional equation from interior measurement
15:05-15:35	Alexander Shananin Moscow Institute of Physics and Technology	Inverse problems in models of distribution of resources
15:40-16:10	Shuhua Zhang Tianjin University Finance and Economics, China	A new idea for forecasting - based on data-driven PDE and ODE
16:15-16:40	**Coffee break**	
16:40-18:00	**Section XI, room 2322**	**Section XII, room 2328**

	August 30, Friday	***Novosibirsk State University, Pirogova street, 1, room 2328***
9:00-9:45	Eugene Tyrtyshnikov (Conference Lecture) Marchuk Institute of Computational Mathematics, Moscow	Tensor train decomposition and its application
9:50-10:35	Vladimir Romanov (Conference Lecture) Sobolev Institute of Mathematics, Novosibirsk	Phaseless inverse problems
10:40-11:10	**Coffee break**	
11:10-11:55	Vladimir Vasin (Conference Lecture) N.N. Krasovskii Institute of Mathematics and Mechanics, Ekaterinburg	Some actual problems of the theory of ill-posed problems
12:00-12:45	Michele Pagano (Conference Lecture) University of Pisa, Italy	Anomaly-based NIDSs based on deep learning
12:50-14:30	**Lunch**	
14:30-15:15	Sergey Kabanikhin (Conference Lecture) Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk	
15:20-16:05	Maxim Shishlenin (Conference Lecture) Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk	Regularization of the Cauchy problems with partial data.
16:10-16:40	**Coffee break**	
16:40-17:10	Olga Krivorotko Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk	Numerical regularization of multi-parametrical minimization problems arising in epidemiology
17:10-17:40	Zewen Wang East China University of Technology, China	Determination of an unknown time-dependent heat source from a nonlocal measurement by finite difference method
17:40-18:10	Ting Wei Lanzhou University, China	Identification of time-dependent convection coefficient in a time-fractional diffusion equation

	August 31, Saturday	***Novosibirsk State University, Pirogova street, 1, room 2328***
9:00-9:30	Alexander Gasnikov Moscow Institute of Physics and Technology	Modern numerical methods for solving non-convex smooth optimization problems
9:35-10:05	Andrey Marchuk Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk	Inverse kinematic problems of tsunami
10:10-10:40	Sergey Golushko Novosibirsk State University	Direct, inverse and optimization problems in the mechanics of composites
10:45-11:10	**Coffee break**	
11:10-11:40	Alexander Kozhanov Sobolev Institute of Mathematics, Novosibirsk	Differential equations of mathematical physics with unknown parameters
11:45-12:15	Aleksey Penenko Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk	Adjoint functions ensembles in data assimilation and inverse problems solution algorithms
12:20-12:50	Andrey Terekhov Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk	Imaging Earth's interior via the Laguerre finite-difference one-way wave equation solver
	September 1, Sunday	**Cultural and Sports Programm (to be announced)**
	September 2, Monday	***Institute of Computational Mathematics and Mathematical Geophysics, Lavrentiva street 6, Conference Hall***
9:00-9:30	Yagola Anatoly Moscow State University	Is it possible to estimate the error of solving an Ill-Posed problem?
9:35-10:05	Mikhail Marchenko Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk	Supercomputer stochastic simulation of kinetic processes and Big Data processing
10:10-10:40	Viktor Mikhailov St. Petersburg Department of Steklov Mathematical Institute	Dynamic inverse problem for special system associated with Jacobi matrices and classical moment problems
10:45-11:15	Gennady Platov, Elena Golubeva Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk	Using the EOF decomposition methodology to analyze atmospheric forcing in the formation of climate trends in the Arctic
11:20-11:40	**Coffee break**	
11:40-12:10	Gulnara Kuramshina Moscow State University	Inverse problems of determining the parameters of potential functions of polyatomic molecules from experimental data
12:15-12:45	Alexander Mikhailov St. Petersburg Department of Steklov Mathematical Institute	Forward and inverse dynamic problems for a Krein string. Approximation by point-mass densities

12:50-13:20	Ivan Kazantsev Institute of Computational Mathematics and Mathematical Geophysics, Novosibirsk	Decompsion of regular textures in images using the Radon transform
13:30	**Closing Ceremony**	