

International Scientific Conference Modern challenges of inverse problems

dedicated to the 70th anniversary of Professor Alemdar Hasanov Hasanoglu

October 3-5, 2024 **Conference** Programme Novosibirsk time: GMT+7



Zoom: https://us02web.zoom.us/j/82680294606?pwd=MzNZRVVvK2YwZGZhZThBUmIxM3BrUT09 Conference ID: 826 8029 4606 Access code: 191624 In case of problems logging in to Zoom, you can connect to the **YouTube channel**: https://youtube.com/channel/UCEfDHH6-AcdAYEaizUzrelw

Thursday, October 3rd Sobolev Institute of Mathematics, RAS **305** Room

9:30-10:00	Jun Zou	Some most effective numerical methodologies for linear and
	The Chinese University of Hong Kong, China	nonlinear inverse problems
10:10-10:40	Masahiro Yamamoto	Recent results on inverse problems for time-fractional
	The University of Tokyo, Japan	diffusion-wave equations
10:45-11:10	Coffee	
11:10-11:40	Mikhail Alexandrovich Guzev, Doludenko A.N.,	
	Ermakov A.D., Posdnevskaya A.O., Fortova S.V.	Application of Magley reply distributions to solve the inverse
	Institute of Applied Mathematics of the Far Eastern Branch of	application of Masiov fails distributions to solve the inverse
	the Russian Academy of Sciences, Vladivostok, Institute of	guagi two dimensional turbulant flows
	Design Automation of the Russian Academy of Sciences,	quasi-two-dimensional turbulent nows
	Moscow, Russia	
11:45-12:15	Vladimir Vasilyevich Vasin, Gainova I.A.	
	Institute of Mathematics and Mechanics of the Ural Branch of	Stable algorithms for inverse problems with additional
	the Russian Academy of Sciences, Yekaterinburg, S.L. Sobolev	conditions for solution
	Institute of Mathematics SB RAS, Novosibirsk, Russia	
12:20-12:50	Gennady Valentinovich Alekseev, Spivak Yu.E.	Inverse control problems for the
	Institute of Applied Mathematics FEB RAS, Far Eastern	magnetohydrodynamics-Boussinesq model of a viscous
	Federal University, Vladivostok, Russia	heat-conducting fluid



12:55-14:00	Lunch	
14:00-14:30	Novikov Roman, Hohage T., Sivkin V.	Phase retrieval and phaseless inverse scattering with background
	CNRS, Ecole Polytechnique & IEPT RAS, Paris, France	information
14:35-15:05	Vasilii Kolokoltsov	On the new theory of optimal taxation
	Lomonosov Moscow State University, Moscow, Russia	
15:10-15:40	Nataliia Obrosova, Shananin A.A.	Mathematical models of intersectoral balance with factors substitution and industrial capacities limitation
	Federal Research Center "Informatics and Management" Russian	
	Academy of Sciences, Moscow, Russia	
15:45-16:10	Coffee	
16:10-16:40	Vladimir Gorbunov	Scientific methodology and mathematical modelling of economy
	Ulyanovsk State University, Ulyanovsk, Russia	
16:40-17:10	Vyacheslav Maximov	The application of a locally regularized extreme shift in the task of implementing a prescribed motion
	Institute of Mathematics and Mechanics URB RAS,	
	Ekaterinburg, Russia	
17:10-17:40	Mikhail Shimelevich, Obornev E.A., Obornev I.E.,	
	Rodionov E.A.	Deep learning methods in nonlinear inverse problems of geophysics
	Sergo Ordzhonikidze Russian State Geological Exploration	
	University, Moscow, Russia	
17:40-18:00	Leonid Zotov, Sidorenkov N., Bizouard C., Marchukova	Could the tides influence Chandler wobble, LOD, and Atlantic Multidecadal Oscillation?
	0.	
	SAI MSU, Moscow, Russia	
18:00-18:20	Alexey Shcheglov, Netesov S.V.	Some inverse problems for a series of population dynamics models with age structuring
	Lomonosov Moscow State University, MGSU-PPI University,	
	Shenzhen, China	