International Conference
«Inverse Problems in Finance, Economics and Life Sciences»
Almaty, Kazakhstan, December 26-28, 2017.

PROGRAMM

26 December, Monday

Al-Farabi Kazakh National University, mechanics and mathematical faculty, room 213

8.30-9.30	**Registration**	
9.30-10.00	**Grand Opening of the International Conference «Inverse Problems in Finance, Economics and Life Sciences»**	

	Plenary talks	*Chairman: Prof. Kabanikhin S.I.*
10.00-10.30	Godunov S.K., **Klyuchinskiy D.V.**	An experimental investigation of discontinuous solutions of a new finite-difference model of fluid dynamics with entropy nondecreasing
10.30-11.00	**Krivorotko O.I.,** Kabanikhin S.I., Zhang Sh.	Mathematical models of social networks and epidemiology and inverse problems
11.00-11.30	**Kabanikhin S.I.,** Shishlenin M.A., Bektemessov M.A.	Continuation problems in Geophysics
11.30-12.00	*Coffee break and general photo*	
12.00-12.30	**Krivorotko O.I.,** Kabanikhin S.I.	Complex approach for solving of inverse problems in life sciences
12.30-14.00	*Lunch time*	

14.00-16.00	*Section talks*	*Chairman: Dr. Krivorotko O.I.*
14.00-14.15	**Bektemessov À.Ò.,** Kuatbayeva A.A.	Using of model checking for combining tasks
14.15-14.30	**Latyshenko V.A.,** Krivorotko O.I., Kabanikhin S.I.	Identifiability of parameters of mathematical models in the field of biology
14.30-14.45	**Yermolenko D.V.,** Krivorotko O.I., Kabanikhin S.I.	The solution of the inverse problem of determining parameters for the mathematical model of HIV dynamics
14.45-15.00	**Bektemessov Z.M.,** Kabanikhin S.I., **Bektemessov M.A**., Shishlenin M.A., Yang XS.	Parameter estimation in economic mathematical models using differential evolution algorithm
15.00-15.15	**Kondakova E.A.,** Krivorotko O.I., Kabanikhin S.I.	Inverse problems in financial economics: overview and algorithms
15.15-15.30	**Gorbunov V.K.,** Lvov A.G.	The production function construction with the effective production funds estimation
15.30-15.45	**Leonov A.S.**	Optimal and extra-optimal methods for solving ill-posed optimization problems
15.45-16.00	**Zhumat F.,** Duisebekova K.	The Blockchain Hype: Current Research State of Technology
16.00-16.20	*Coffee break*	
16.20-18.30	*Round tables*	

27 December, Tuesday

Al-Farabi Kazakh National University, mechanics and mathematical faculty, room 213

9.30-12.20	*Section talks*	*Chairman: Klyuchinsky D.V.*
9.30-9.45	**Sadybekov M.,** Torebek B.	On a class of inverse problems on the restoration of a source of external influence on a stationary diffusion process with conditions on flows on different parts of the boundary.
9.45-10.00	**Sadybekov M.,** Torebek B.	On a class of inverse source problems on a stationary diffusion process with flows on different parts of the boundary
10.00-10.15	**Kozhabekova A.S.**	The model of applications processing for optimal delivery of goods to customers in E-commerce system
10.15-10.30	Azimov A., **Serovajsky S.,** Nurseitov D., Nurseitova A.	Possibilities of determination parameters of the gravitational anomaly according to the results of measuring the gravitational field on the earth surface
10.30-10.50	*Coffee break*	
10.50-11.05	**Orynbassarov K.Z.**	The development of secure algorithm in generating EDS for egov.kz
11.05-11.20	**Satybaev A.D.,** Alimkanov A.A., Anishenko Yu.V., Kokozova A.Zh.	Existence of the solution of a two-dimensional direct problem of wave processes with instant and current sources
11.20-11.35	**Askarova Z.,** Zholpanbaev B.B., Daiurbaeva L.M.	The problem of continuation of the electromagnetic field to a given depth
11.35-11.50	**Zakirova G.A.,** Kadchenko S.I.	About one inverse problem of Oceanology
11.50-12.05	**Turarbek A.T.,** Begadil Z., Kozhakenov T.	Seismic risk estimation of Almaty city using GIS ITRIS
12.05-12.20	**Mamatkasymova A.**	Numerical solution of the direct and inverse problem of the Maxwell equation with instantaneous and lace sources
12.20-14.00	*Lunch time*	

14.00-16.00	*Section talks*	*Chairman: Yermolenko D.V.*
14.00-14.15	**Klyuchinsky D.V.,** Shishlenin M.A.	Numerical methods for the solution of the continuation problem of a parabolic

Time	Speaker	Title
		equation
14.15-14.30	**Asanov A.**	A class of systems of linear Fredholm integral equations of the third kind with multipoint singularities in the axis
14.30-14.45	**Temirbekova L.N.**	Numerical method for solving two dimensional Fredholm integral equations
14.45-15.00	**Satybaldina A.N.,** Rysbaiuly B.	Mathematical modeling of the molecular diffusion model for predicting wax deposition
15.00-15.15	**Matanova K.B**	On inverse problem for a pseudoparabolic third order integro-differential equation with variable coefficients
15.15-15.30	**Mukhambetzhanov S.T.,** Abdiakhmetova Z.M., Shazhdekeeva N.K.	On the direct and inverse problem of the theory of filtration on specification of technological indicators
15.30-15.45	**Sigalovsky M.**	Optimization methods for incorrect problems with conditions on the boundary part in the simple 2D case
15.45-16.00	**Altayeva A.**	Study of Smart City Platform Based on OneM2M standards
16.00-16.20	*Coffee break*	
16.20-18.05	*Section talks*	*Chairman: Latyshenko V.A.*
16.20-16.35	**Kenzhebaeva M.O.**	The restoration of the density of a homogeneous anomaly from the measurement of the gravitational potential and its derivative on the earth's surface.
16.35-16.50	**Kirillov E.V.**	Direct spectral problem for one mathematical model of hydrodynamics
16.50-17.05	**Sultanov M.A.,** Bakanov G.B.	On the convergence of solution of the three-layer perturbed difference scheme to solution of ill-posed Cauchy problem
17.05-17.20	**Prikhodko A. Yu.,** Shishlenin M. A.	Inverse problems in the software development of the digital smart oil and gas field
17.20-17.35	**Kultaev T.Ch.**	Optimization of districts purchase of raw materials and the volume of processed products
17.35-17.50	**Shayakhmetov N.**	Optimal choice of the well pattern for the producing of minerals using in-situ leaching with a limited volume of the leaching solution.
17.50-18.05	**Askerbekova Z.**	Algorithm for solving the inverse problem for the Helmholtz equation
18.05-18.30	**Closing of the International Conference «Inverse Problems in Finance, Economics and Life Sciences»**	
19.00	*Conference dinner*	

28 December, Wednesday
Departure of conference participants

This International Conference is dedicated to the 65th anniversary of Corresponding Member of RAS, Professor Kabanikhin S.I.

Possible clarifications and changes to the Program are posted on the website of the conference
http://conf.ict.nsc.ru/ipfels2017/en.