



Российская Академия Наук



АБАЙ АТЫНДАҒЫ ҚАЗАҚ ҰЛТТЫҚ ПЕДАГОГИКАЛЫҚ УНИВЕРСИТЕТІ



ИМММ

Институт Математики и
Математического Моделирования

МАТЕМАТИЧЕСКИЙ



ЦЕНТР В АКАДЕМГОРОДКЕ

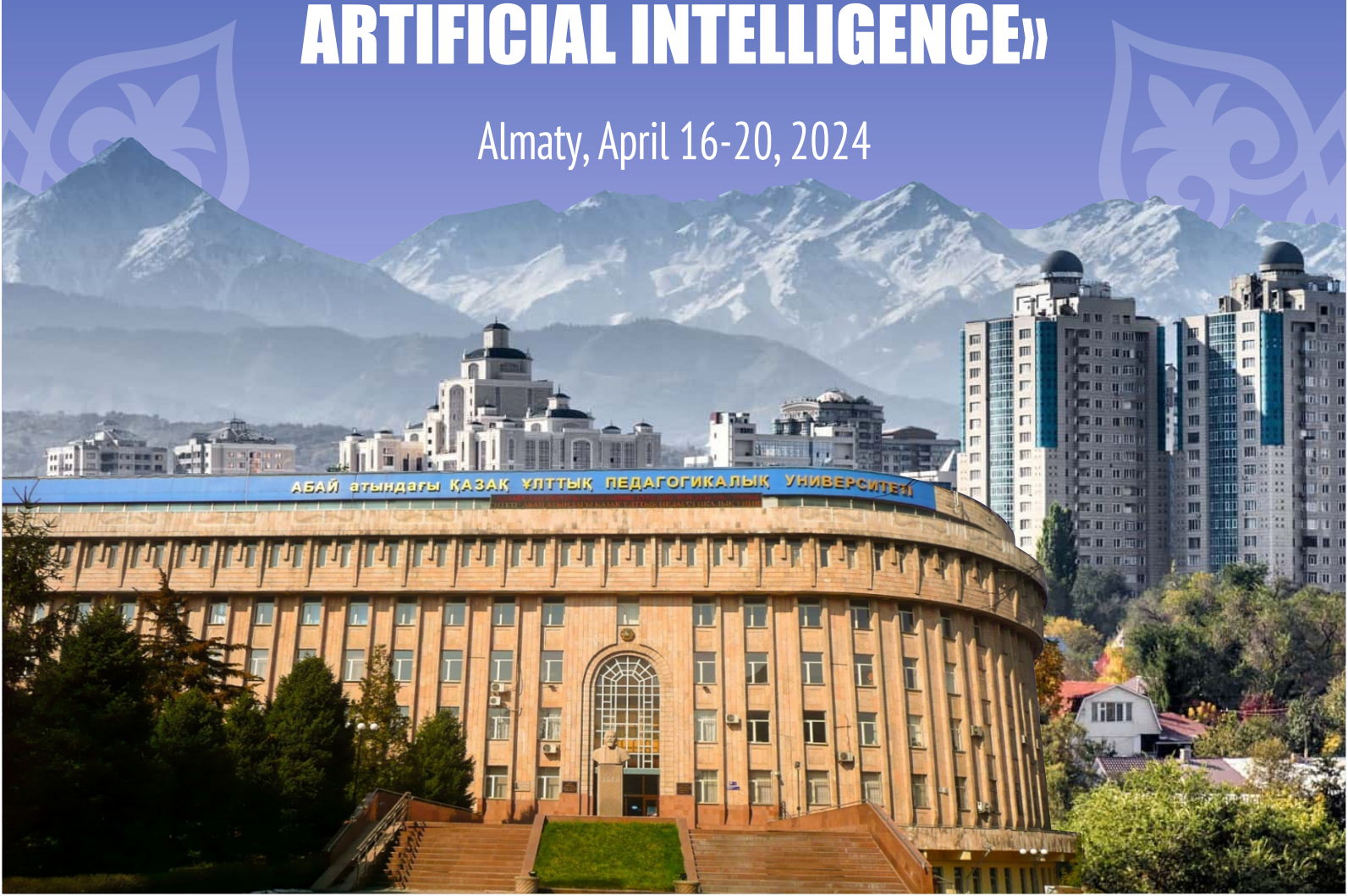


ОБРАТНЫЕ
ЗАДАЧИ

EURASIAN SCIENTIFIC CONFERENCE

«INVERSE AND ILL-POSED
PROBLEMS
IN NATURAL SCIENCE AND
ARTIFICIAL INTELLIGENCE»

Almaty, April 16-20, 2024



Abai Kazakh National Pedagogical University, Kazakhstan
National Engineering Academy of the Republic of Kazakhstan
The Institute of Mathematics and Mathematical Modeling, Kazakhstan
International Mathematical Center SB RAS, Russia
International Foundation of Inverse Problems, Kazakhstan
Russian National Committee in industrial and applied mathematics

ЕУРАЗИЯЛЫҚ ҒЫЛЫМИ КОНФЕРЕНЦИЯ
ЕВРАЗИЙСКАЯ НАУЧНАЯ КОНФЕРЕНЦИЯ
EURASIAN SCIENTIFIC CONFERENCE

«ЖАРАТЫЛЫСТАНУДАҒЫ КЕРІ ЖӘНЕ ҚИСЫНДЫ
ЕМЕС ЕСЕПТЕР ЖӘНЕ ЖАСАНДЫ ИНТЕЛЛЕКТ»

«ОБРАТНЫЕ И НЕКОРРЕКТНЫЕ ЗАДАЧИ
В ЕСТЕСТВОЗНАНИИ И ИСКУССТВЕННЫЙ
ИНТЕЛЛЕКТ»

«INVERSE AND ILL-POSED PROBLEMS IN NATURAL
SCIENCE AND ARTIFICIAL INTELLIGENCE»

БАҒДАРЛАМА
ПРОГРАММА
PROGRAM

Almaty
April 16-20, 2024

Eurasian scientific conference
«Inverse and Ill-Posed Problems in Natural Science and Artificial Intelligence»

INTERNATIONAL PROGRAM COMMITTEE

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Scientific Secretary: PhD, associate professor Kasenov Syrym

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ONLINE ACCESS TO THE CONFERENCE VIA LINK

TIME: APR 17 2024 09:00 AM ASTANA, DHAKA

EVERY DAY, UNTIL 19 APR. 2024, 3RD EVENT(S)

17 APR. 2024 09:00 AM, 18 APR. 2024 09:00 AM, 19 APR. 2024 09:00 AM

Download And Import The Following Icalendar (.Ics) Files Into Your Scheduling System.

DAILY:

https://zoom.us/meeting/tJYvcuGpqDMrGNLz1xGN83aCNMGileeHR6rm/ics?icsToken=98tyKuCqrD4iG9KdsRuBRoWQAI_4WewwplxcjY1xhk79JA4LMQLVGM9IO756FfDi

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<https://zoom.us/j/92258168126?pwd=U09HLzBXdndLNHd4NlppYXVwOEIzUT09>

CONFERENCE ID: 922 5816 8126

ACCESS CODE: 198826

PROGRAM
Eurasian scientific conference
«Inverse and Ill-Posed Problems in Natural Science and Artificial Intelligence»

Location:

Almaty, st. Tole bi, 86 Abai KazNPU, conference room, 3rd floor, Institute of Mathematics, Physics and Informatics.

<i>Wednesday, April 17, 2024</i>	
09:00-09:40 hall	Registration for participation
OPENING OF THE CONFERENCE	
09:40-10:00	<p>Welcome words: Tilep B.A. – Chairman of the Board - Rector of Abai Kazakh National Pedagogical University Zhumagulov B.T. – Academician of NAS RK, President of the Mathematical Society of the Turkic World, President of the Mathematical Society of Kazakhstan, President of the National Engineering Academy of the Republic of Kazakhstan, Almaty, Kazakhstan Kabanikhin S.I. – Corresponding member of the RAS, Director of the International Mathematical Center of the Sobolev Institute of Mathematics, Novosibirsk, Russia</p>
PLENARY SESSION Moderator – Professor Bektemessov Maktagali	
10:00-10:30	<p>Well-Posed Settings of Ill-Posed Problems</p> <p>EVGENY TYRTYSHNIKOV Academician of the RAS, Marchuk Institute of Numerical Mathematics RAS, Moscow, Russia</p>
10:30-11:00	<p>The criterion of the solvability of the overdetermined Cauchy problem for the hyperbolic Gellerstedt equation</p> <p>TYNYSBEK KALMENOV, ROGOY ALEXANDER Academician of NAS RK, Institute of Mathematics and Mathematical modeling, Almaty, Kazakhstan</p>
11:00-11:30	<p>Linear Regularization of Nonlinear Inverse Problems</p> <p>SERGEY KABANIKHIN Corresponding member of the RAS, Director of the International Mathematical Center of the Sobolev Institute of Mathematics, Novosibirsk, Russia</p>
11:30-11:50	COFFEE BREAK
11:50-12:20	Generalized asymptotic regularization methods for inverse and ill-posed problems

	<p>YE ZHANG Professor in Mathematics, Beijing Institute of Technology & Shenzhen MSU-BIT University, Shenzhen, China</p>
12:20 –12:50	<p>Problems of mathematical epidemiology</p> <p>SIMON SEROVAJSKY professor, Al-Farabi KazNU, Almaty, Kazakhstan</p>
13.00-14.00	BREAK
14.00-14.20	<p>About the school of inverse and ill-posed problems in Kazakhstan and Russia</p> <p>MAKTAGALI BEKTEMESOV Professor, Abai KazNPU, Almaty, Kazakhstan</p>
14:20-14:50	<p>On the recovery of internal source for an elliptic system by neural network approximation</p> <p>ZHANG HUI, JIJUN LIU PhD student, School of Mathematics, Southeast University, Nanjing, China. Professor, Southeast University, China, Nanjing</p>
14:50-15:20	<p>Inversion formulas for distributed order integro-differentiation operators</p> <p>ARSEN PSHU Professor, Institute of Applied Mathematics and Automation KBSC RAS</p>
15:20-15:50	<p>Inverse problems of acoustic sounding</p> <p>MAXIM SHISHLENIN Professor, Vice Director for Science, Sobolev Institute of Mathematics, Novosibirsk, Russia</p>
15:50-16:20	<p>Simply-laced Dynkin diagrams</p> <p>TOLGA ETGU Department Chair, Nazarbayev University</p>
16:20-16:40	COFFEE BREAK
16:40-17:20	<p>Globally unsolvable evolutionary problems with critical nonlinearities</p> <p>BERIKBOL TOREBEK PhD, Institute of Mathematics and Mathematical modeling, Almaty, Kazakhstan</p>
17:20-18:00	<p>Mathematical modeling of tuberculosis and hiv co-infection dynamic based on machine learning and inverse problems</p> <p>OLGA KRIVOROTKO, A. NEVEROV, G. KAMINSKY Professor, Sobolev Institute of Mathematics, Novosibirsk, Russia</p>
18:00-18:20	<i>Discussion. Closing of the first day of the conference. Photoshoot</i>

Thursday, April 18, 2024

Location:

Almaty, st. Tole bi, 86 Abai KazNPU, conference room, 3rd floor, Institute of Mathematics, Physics and Informatics.

08:30-09:00 Hall	Registration for participation
PLENARY SESSION Moderators – Professor Bektemessov Maktagali, Professor Maxim Shishlenin	
9:00-9:30	Multiparameter inverse problems of seismic wave propagation in geological media VLADIMIR CHEVERDA Professor, Sobolev Institute of Mathematics, Novosibirsk, Russia
9:30-10:00	Double-parameter regularization for solving the backward diffusion problem with parallel-in-time algorithm JUN-LIANG FU, JIJUN LIU PhD student, School of Mathematics, Southeast University, Nanjing, China Professor, Southeast University, China, Nanjing
10:00-10:30	On the spectral problem for the three-dimensional bi-Laplacian in the unit ball MUVASHARKHAN JENALIYEV Professor, Institute of Mathematics and Mathematical modeling, Almaty, Kazakhstan
10:30-11:00	Forecasting of the COVID-19 epidemic in russian regions using conditional generative adversarial neural networks NIKOLAY ZYATKOV Professor, Sobolev Institute of Mathematics, Novosibirsk, Russia
11:00-11:30	COFFEE BREAK
11:30-12:00	О гашении колебаний системы стержней под воздействием внешних граничных усилий и возможные применения таких гашении в сейсмологии MUKHTARBAY OTELBAYEV, BALTABEK KANGUZHIN Academician of NAS RK, Al-Farabi KazNU, Almaty, Kazakhstan
12:00-12:30	Identification parameter problem for hyperbolic equations with discrete effect memory ANAR ASSANOVA Professor, Institute of Mathematics and Mathematical modeling, Almaty, Kazakhstan
12:30 –13:00	Domain sampling methods for an inverse boundary value problem HAIBING WANG PhD, professor Southeast University, Nanjing, China

13.00-14.00	BREAK
14:00-14:20	<p>Inverse problem for the moisture transfer equation: development of a method for finding an unknown parameter</p> <p>BOLATBEK RYSBAYULY professor, International University of Information Technologies, Almaty, Kazakhstan</p>
14:20-14:40	<p>Numerical solution of inverse problems for hyperbolic equations based on a direct data processing algorithm</p> <p>NIKITA NOVIKOV professor, Sobolev Institute of Mathematics, Novosibirsk, Russia</p>
14:40-15:00	<p>Inverse problems for determining the aerodynamic characteristics of aircraft using moment equation</p> <p>AUZHAN SAKABEKOV professor, Satpayev KazNRTU, Almaty, Kazakhstan</p>
15:00-15:20	<p>On a class of linear regression methods</p> <p>WANG YING-AO PhD student, Beijing Institute of Technology, Beijing, China</p>
15:20-15:40	<p>Numerical methods for solving the initial boundary value problem for the subdiffusion equation with nonlocal boundary conditions</p> <p>MURAT SULTANOV professor, International Kazakh-Turkish University, Kazakhstan</p>
15:40-16:00	COFFEE BREAK
16:00-16:20	<p>The inverse problem for one class of pseudoparabolic equations</p> <p>ABIT ASANOV Professor, Manas University, Bishkek, Kyrgyzstan</p>
16:20-16:40	<p>Uniqueness of solutions for certain linear equations of the third kind with two variables</p> <p>ZUURAKAN KADENOVA associate professor, Institute of Mathematics of the National Academy of Sciences of the Kyrgyz Republic, Bishkek, Kyrgyzstan</p>
16:40-17:00	<p>System of algebraic equations containing isolated components of eigenvectors</p> <p>SAPARGALI ZHANATAUOV associate professor, Kazakh National Research Agrarian University, Almaty, Kazakhstan</p>
17:00-17:20	<p>On the initial boundary value problem for a hyperbolic equation with power degeneracy $T_{12/7}$</p> <p>ARNAI KASYMBEKOVA associate professor, Al-Farabi KazNU, Almaty, Kazakhstan</p>

17:20-17:40	<p>Study of acoustic modeling in the context of analytical solutions of inverse problems of equations of multi-physical processes in multilayer media</p> <p>ARTEM SINITSIA PhD, associate professor, Dean of the School of Applied Mathematics, Kazakh-British Technical University, Almaty, Kazakhstan</p>
17:40-18:00	<p>Direct and inverse problems for the Burgers equation in degenerate domains</p> <p>MADI ERGALIEV PhD, Institute of Mathematics and Mathematical modeling, Almaty, Kazakhstan</p>

Friday, April 19, 2024

Location:

Almaty, st. Tole bi, 86 Abai KazNPU, conference room, 3rd floor, Institute of Mathematics, Physics and Informatics.

<p>Moderators – PhD, Senior Lecturer Kadyrjan Shiyapov PhD, associate professor, Syrym Kasenov</p>	
09:00-09:40 Hall	Registration for participation
9.40- 10.00	<p>Ill-posedness of a mixed problem in a cylindrical domain for one class of multidimensional hyperbolic-elliptic equations</p> <p>SERIK ALDASHEV Professor, Institute of Mathematics and Mathematical modeling, Almaty, Kazakhstan</p>
10:00-10:10	<p>Inverse source problem for Kelvin-Voigt equation with memory</p> <p>AIDOS SHAKIR teacher, Al-Farabi KazNU, Almaty, Kazakhstan</p>
10:10-10:20	<p>Circular anomaly in a rectangular search area. About one inverse problem of gravimetry</p> <p>MARK SIGALOVSKY doctoral student, Al-Farabi KazNU, Almaty, Kazakhstan</p>
10:20-10:30	<p>Determination of the optimal radius of a hexagonal well arrangement when developing deposits using the in-situ leaching method</p> <p>NURLAN SHAYAKHMETOV doctoral student, Satbayev University, Almaty, Kazakhstan</p>
10:30-10:40	<p>Numerical simulation of seismic wave fields in temperature-dependent saturated porous media</p> <p>RESHETOVA GALINA Professor, Institute of Computational Mathematics and Mathematical Geophysics SB RAS, Novosibirsk, Russia</p>

10:40-10:50	<p>Application of inverse problems in teaching the topic of probability multiplication theorem</p> <p>BAGDAGUL KADYRBAEVA associate professor, Senior Lecturer, Abai Kazakh National Pedagogical University, Almaty, Kazakhstan</p>
10:50-11:00	<p>On a nonlinear inverse problem for a degenerate parabolic equation</p> <p>GUZEL ASHUROVA doctoral student, Al-Farabi KazNU, Almaty, Kazakhstan</p>
11:00-11:20	COFFEE BREAK
11:20-11:30	<p>The inverse problem of estimating the thermophysical parameters of a three-layer medium for hyperbolic heat conduction equations</p> <p>GAUKHAR MARAT Senior Lecturer, International University of Information Technologies, Almaty, Kazakhstan</p>
11:30-11:40	<p>Nonlinear inverse problem for a hyperbolic equation</p> <p>REGINA SAFIULLOVA associate professor, Ufa University of Science and Technology, Ufa, Russia</p>
11:40 –11:50	<p>Boundary value problems with an integro-differential nonlocal condition for fourth-order differential equations of composite type</p> <p>KHANAT KENZHEBAI doctoral student, Al-Farabi KazNU, Almaty, Kazakhstan</p>
11:50-12:00	<p>Coefficient inverse problems for the heat equation in a two-dimensional anisotropic medium</p> <p>AZAMAT ASUBAY Senior Lecturer, International University of Information Technologies, Almaty, Kazakhstan</p>
12:00-12:10	<p>Solvability of the inverse problem for a p-harmonic pseudo-parabolic equation</p> <p>KAIRDEN BAETOV doctoral student, Abai KazNPU Almaty, Kazakhstan</p>
12:10-12:20	<p>Coefficient inverse problem of joint transfer of heat and moisture in a porous medium</p> <p>AYYMZHAN BAITEREEVA doctoral student, Al-Farabi KazNU, Almaty, Kazakhstan</p>
12:20-12:30	<p>Direct and inverse problem of subsurface radar in the frequency domain</p> <p>ALMAS TATIN doctoral student, L.N. Gumilyov Eurasian National University, Kazakhstan</p>
12:30-12:40	<p>Processing and storage of data from experimental studies of roads in Akmola region</p>

	AYNUR KUSAINOVA doctoral student, L.N. Gumilyov Eurasian National University, Kazakhstan
12:40-12:50	Inverse right-hand side recovery problem for a pseudo parabolic equation KORKEM ZHALGASOVA doctoral student, Auezov South Kazakhstan University, Shymkent, Kazakhstan
12:50-13:00	Analytical solution of heat conduction equations in a polar coordinate system AYGUL SATYBALDINA Senior Lecturer, International University of Information Technologies, Almaty, Kazakhstan
13.00-14.00	BREAK
14:00-14:10	Physics-Informed Neural Networks for the 1D Euler's Equations RINAT FAYZULIN, SULTAN ALPAR Student, International University of Information Technologies, Almaty, Kazakhstan PhD, researcher of La-Rochelle University, France
14:10-14:20	Selection method for solving the problem of subsurface radar (piecewise continuous media) DAULET BESHEYEV doctoral student, L.N. Gumilyov Eurasian National University, Kazakhstan
14:20-14:30	Mathematical modeling of inverse problems of prostate cancer development in bone ZHOLAMAN BEKTEMESSOV PhD, invited researcher of La-Rochelle University, France
14:30-14:40	Deep learning in determining seismic activity in Kazakhstan ASEM TURARBEBEK doctoral student, Al-Farabi KazNU, Almaty, Kazakhstan
14:40-14:50	Solving the inverse problem for the immunological process of HIV infection development at an early stage PAVEL SURNIN Research Engineer, Institute of Mathematics SB RAS, Novosibirsk, Russia
14:50-15:00	Solvability of a nonlocal conditional boundary value problem for an elliptic equation ARAY KUNTUAROVA Senior Lecturer, Abai KazNPU Almaty, Kazakhstan
15:00-15:10	Numerical solution of the linear heat conduction problem AISHABIBI KONANOVA undergraduate student, Abai KazNPU Almaty, Kazakhstan
15:10-15:20	Necessary and sufficient conditions for the global minimum of the objective function

	<p>ZAILAN TUTKUSHEVA master degree, K. Zhubanova Aktobe Regional University, Aktobe, Kazakhstan</p>
15:20-15:30	<p>Inverse problem to a mixed type equation with a fractional derivative in the sense of Caputo</p> <p>ARUZHAN ALPYSBAYEVA undergraduate student, Al-Farabi KazNU, Almaty, Kazakhstan</p>
15:30-15:40	<p>Special solutions of higher order differential equations</p> <p>GALIYA MUKHAMEJAN undergraduate student, Abai KazNPU Almaty, Kazakhstan</p>
15:40-16:00	<p>Solution of the inverse problem of identifying parameters of a model of the dynamics of co-infection of tuberculosis and HIV using optimization methods and synthetically generated data</p> <p>AIGUL KUBEGENOVA Senior Lecturer, Zhangir Khan University, Uralsk, Kazakhstan</p>
16:00-16:10	<p>To teach the course “Inverse and ill-posed problems” to undergraduates majoring in mathematics and computer science at a pedagogical university</p> <p>NAGIMA AKIMZHAN PhD, Senior Lecturer, Abai KazNPU Almaty, Kazakhstan</p>
16:10-16:20	<p>Modeling the distribution of pollutants in the atmosphere from industrial sources taking into account concentration</p> <p>NURLAN TEMIRBEKOV Corresponding member of NAS RK, National Engineering Academy RK, Almaty, Kazakhstan</p>
16:20-16:40	<p>Discrete inverse problem for a hyperbolic equation, properties of the solution of a discrete direct and auxiliary problem</p> <p>GALITDEN BAKANOV Professor, International Kazakh-Turkish University, Kazakhstan</p>
16:40-16:50	<p>Solving the nonlinear Schrödinger equation using a physically informed neural network and tuning the adaptive activation function</p> <p>LIU SHUANG undergraduate student, Novosibirsk State University, Novosibirsk, Russia</p>
16:50-17:10	<p>Algorithm for solving the inverse hyperbolic problem of action potential propagation along a nerve fiber</p> <p>ABDUGANY SATYBAEV Professor Osh University, Osh, Kyrgyzstan</p>
17:10-17:20	<p>Direct and inverse problem of subsurface radar for road diagnostics</p> <p>DAUREN KASENALIEV student, L.N. Gumilyov Eurasian National University, Kazakhstan</p>

17:20-17:30	Exploring advanced inverse modeling techniques for estimating soil thermal conductivity along underground oil pipelines LAURA ERMEKKYZY doctoral student, Al-Farabi KazNU, Almaty, Kazakhstan
17:30-17:40	Algorithm for numerical solution of the boundary inverse problem for the acoustic equation DANA YERGALI undergraduate student, Al-Farabi KazNU, Almaty, Kazakhstan
17:40-17:50	Numerical methods for solving the inverse problem in the field of thermoacoustics AYAZHAN VOSERBAEVA undergraduate student, Al-Farabi KazNU, Almaty, Kazakhstan
17:50-18:00	Experimental studies using the GPR series "OKO" for various types of road clothing of the Republic of Kazakhstan AYNUR KUSAINOVA doctoral student, L.N. Gumilyov Eurasian National University, Kazakhstan
18:00-18:20	<i>Discussion. Closing of the conference. Photoshoot.</i>

CONTACTS

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Казхстанско-Российский научный семинар

Методы построения, исследования и идентификации математических моделей в науках о Земле и человеке

ПРОГРАММА
Алматы,
10-12 декабря 2013 года

Казанский национальный университет имени Аль-Фараби
Институт компьютерных наук и математики
Институт математики и механики УрФУ
Институт математики и механики СО РАН
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Институт математики и механики СО РАН

Шестая международная молодёжная научная школа-конференция

Теория и численные методы решения обратных и некорректных задач в рамках международной конференции «Математические модели биологии и медицины: построения, исследования и идентификация»

ПРОГРАММА
Алматы,
9-12 декабря 2014 года

ЗИМНЯЯ МЕЖДУНАРОДНАЯ МОЛОДЕЖНАЯ НАУЧНАЯ ШКОЛА-КОНФЕРЕНЦИЯ

ТЕОРИЯ И ПРИЛОЖЕНИЯ ОБРАТНЫХ И НЕКОРРЕКТНЫХ ЗАДАЧ

Программа
Алматы, 22-25 декабря 2016

Al-Farabi Kazakh National University, Kazakhstan
Research Institute of Mathematics and Mechanics, Kazakhstan
Institute of Computational Mathematics and Mathematical Geophysics SB RAS, Russia
Novosibirsk State University, Russia
Shanghai University of Finance and Economics, China
Tsinghua University of Finance and Economics, China
Chinese Mathematical Society

International Conference Inverse Problems in Finance, Economics and Life Sciences Programm

Almaty, Kazakhstan

Al-Farabi Kazakh National University (Kazakhstan)
Al-Farabi Kazakh National University (Kazakhstan)
Scientific Research Institute of Mathematics and Mechanics (Kazakhstan)
The Institute of Computational Mathematics and Mathematical Geophysics SB RAS (Russia)
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