



**The Sixth Eurasian Conference RISK-2024
COP-29 Side Event**

Innovations in Minimization of Natural and Technological Risks of Climate Changes: Methodology and Practice

PROGRAMME

NOVEMBER 27-29. 2024
Azerbaijan Technical University
BAKU. AZERBAIJAN
www.eurasianrisk2024.com

AZERBAIJAN TECHNICAL UNIVERSITY
AMIR TECHNICAL SERVICES COMPANY, AZERBAIJAN
POLITECNICO DI MILANO, ITALY
INTERNATIONAL GROUP ON RELIABILITY-GNEDENKO FORUM, USA
THE UN FRAMEWORK CONVENTION ON CLIMATE CHANGE



COP-29 Side Event
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Natural and Technological Risks of Climate Changes:
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PROGRAMME

27 – 29 November, 2024, Baku, AZERBAIJAN

VENUE

Ministry of Science and Education of Azerbaijan Republic
Azerbaijan Technical University
Baku, AZ1073, H.Javid avenue, 25



The opening ceremony will be held in the Assembly Hall



ORGANIZERS

- Azerbaijan Technical University
- International Event Organizer Company AMIR Technical Services
- Politecnico di Milano, Italy
- International Group on Reliability - Gnedenko Forum, the USA
- UN Framework Convention of the Climate Change COP-29

COMMITTEES

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Co-Chair:

- Prof.Dr. Enrico ZIO – Politecnico di Milano, ITALY

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- Dr. Alexander BOCHKOV – Scientific Secretary of the Scientific and Technical Council Institute for Information Technology, Signaling and Telecommunications on Railway Transport (NIIAS), RUSSIA

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Dr. Elena NIKITINA – Nobel Prize winner as a part of expert group for Intergovernmental Panel on Climate Change Assessment Report 2007; Head of Section Global Economic Problems, Institute of World Economy and International Relations RAS, RUSSIA

Prof. Dr. Enrico ZIO – Chairman of the European Safety and Reliability Association (ESRA); President of the Alumni Association, Politecnico di Milano; President of Advanced Reliability, Availability and Maintainability of Industries and Services (ARAMIS); Member of the Scientific Committee on Accidental Risks of INERIS, National Institute for the Industrial Environment and Risks, France; Full professor Politecnico di Milano, ITALY

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Prof. Dr. Michael BEER – Chairman of the European Safety and Reliability Association, Leibniz University Hannover, GERMANY

Prof. Dr. Way KUO – Senior Fellow Institute for Advanced Study, City University, HONG KONG

Prof. Dr. Heydar ASADOV – Rector, State Marine Academy, AZERBAIJAN

Prof. Dr. Boyan DIMITROV – President, Gnedenko Forum, International Group on Reliability. The USA

Prof. Dr. Harald DRAGER – President, the International Emergency Management Society, BELGIUM

Prof. Dr. Edoardo PATELLI – Vice-Chairman of the European Safety and Reliability Association (ESRA), University of Strathclyde, Glasgow, UK

Prof. Dr. Di ZHANG – National Research Engineering Center for Water Safety Transport, School of Transportation and Logistics Engineering Wuhan University of Technology, CHINA

Prof. Dr. Gregory LEVITIN – NOGA – Independent System Operator, Haifa, ISRAEL

Prof. Dr. Gülçöhrə MAMMADOVA – Rector, University of Architecture and Construction, AZERBAIJAN

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Fuad HAJIALIYEV – Head of the “Risk Management Department” of the Azerbaijan Caspian Shipping CJSC, AZERBAIJAN

Prof. Dr. Adrian GHEORGE – Old Dominion University, the USA

Assoc.Prof. Elshad ALİYEV – Department of Design, University of Architecture and Construction, AZERBAIJAN

Assoc.Prof. Mohammad Arif Kamal – Architecture Section, Aligarh Muslim University, INDIA

Prof. Dr. Mario BRITO – Chair of Risk Analysis and Risk Management, University of Southampton, UK

Dr. Tarannom PARHIZKAR – University of California, USA

Romualdo MARRAZZO – Service for Risks and Environmental Sustainability of Technologies, Chemical Substances, Production Processes and Water Services and for

Inspections, Italian National Institute for Environmental Protection and Research, Roma, ITALIA

Dr. Elkafi HASSİNİ – DeGroote School of Business, McMaster University, CANADA

Prof. Dr. Azary LAPIDUS – Moscow State University of Civil Engineering, RUSSIA

Dr. Renata ERKER – Institute for Economic Research, SLOVENIA

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Prof. Dr. Mehman HASANOV – Head of Radio Engineering and Telecommunications Department, Azerbaijan Technical University, AZERBAIJAN

Dr. Fuad DASHDAMIROV – Director of the Institute of Logistics and Transport, Azerbaijan Technical University, AZERBAIJAN

Prof. Dr. Vagif HASANOV – Head of the “Applied mechanics” department, State Marine Academy, AZERBAIJAN

Academician Nikolai MAKHUTOV – Head of the Working Group “Risk and Safety” under the President RAS, RUSSIA

Prof. Dr. Aminagha SADIGOV – Correspondent member of ANAS, Head of the Emergency Management Laboratory of Institute of Control Systems, AZERBAIJAN

Dr. Irina BONDARIK – Leading Researcher of the Institute for Hydraulic Engineering and Land Reclamation, Secretary General of the National Committee of the Russian Federation on Irrigation and Drainage, RUSSIA

Prof. Dr. Merab Pkhovelishvili – Institute of Computation Mathematic, Technical University, GEORGIA

Prof. Dr. Kirill GOLOKHAVST – Director, Siberian Federal Scientific Center of Agrobiotechnology; Director Advanced Engineering School, Tomsk State University; Scientific Director of the Nanotechnology Research and Education Center, Far Eastern Federal University, RUSSIA

Prof. Dr. Motoki KAZAMA – Tohoku University, Vice President of the Japanese Geotechnical Society, JAPAN

Dr. Fakhreddin HABIBOV – Independent scholar, AZERBAIJAN

Prof. Dr. Vadim SIVKOV – Director Atlantic Branch of the Ocean Institute of the Russian Academy of Sciences, RUSSIA

Prof. Dr. Georgy FOMENKO – Chairman of the Board of Directors of the Research and Production Association "Institute for Sustainable Innovation", Leading Researcher, Immanuel Kant Baltic Federal University, RUSSIA.

Prof. Dr. Rene GRIESBACH – Planet GmbH, Berlin, GERMANY

Prof. Dr. Ramiz GASUMOV – Director, Institute of Natural Gases (GAZPROM); Head of Department, North Caucasus Federal University, RUSSIA

Vugar ZEYNALOV – Vice-President, National Confederation of Entrepreneurs Organizations, AZERBAIJAN

Dr. Wafa BOULAGOUAS – Department of Working Conditions; Institute of Health and Safety; University of Batna 2, ALGERIA

Prof. Dr. İlhan OR – Boğaziçi University, TURKEY

Academician Asaf HAJIYEV – Secretary General of Parliamentary Assembly of Organization of Black Sea Economic Cooperation

Dr. Rory HADDEN – Institute of Infrastructure and Environment, University of Edinburgh, SCOTLAND

Prof. Dr. Valery AKIMOV – Ministry of Emergency Situations, RUSSIA

Prof. Dr. Jia-Wen ZHOU – State Key Laboratory of Hydraulic and Mountain River Engineering, Sichuan University, PR CHINA

Prof. Dr. Scott STEPHENS – Center for Fire Research and Outreach, University of California Berkeley, the USA

Prof. Dr. Igor YELTSOV – Deputy Director of Science, Institute of Computational Mathematics and Mathematical Geophysics, Siberian Branch RAS, RUSSIA

Academician Akhmetkal MEDEU – Director Institute of Geography and Water Security, Science Committee of the Ministry of Education, KAZAKHSTAN

Prof. Dr. Ali PINAR – Kandilli Observatory and Earthquake Research Institute, Department of Earthquake Engineering, Boğaziçi University, TURKEY

Academician Mykhaylo ROMASHCHENKO – Director of the Institute of Water Problems and Land Reclamation, UKRAINE

Prof. Dr. Reinhard HAAS – Energy Economics Group, Vienna Technology University, AUSTRIA

Prof. Dr. David GURGENIDZE – Rector, Georgian Technical University, GEORGIA

Prof. Dr. Tamar LOMINADZE – Deputy Rector, Technical University, GEORGIA

Prof. Dr. Avtandil AMIRANASHVILI – Institute of Geophysics, Tbilisi State University, GEORGIA

Prof. Dr. Larisa AGUZAROVA – Department of Finance, Accounting and Taxation, North-Ossetian State University, RUSSIA

Prof. Dr. Ramiz GASUMOV – GAZPROM, RUSSIA

Prof. Dr. Yuri MAZHAYSKIY – General Director of the Mescherskiy Scientific-Technical Center, RUSSIA

Prof. Dr. Stefano VIGNUDELLI – Consiglio Nazionale delle Ricerche, Pisa, ITALY

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Prof. Dr. Vesna TUNGUZ – Faculty of Agriculture University of East Sarajevo, BOSNIA & HERZEGOVINA

Prof. Dr. Emil BOURNASKI – Director Climate, Atmosphere and Water Research Institute Bulgarian Academy of Sciences, BULGARIA

Prof. Dr. Irena CIGLENEČKI-JUŠIČ – Division of Marine and Environmental Research Rudjer Bošković Institute, Zagreb, CROATIA

Prof. Mounira Rouaïnia – Department of Petrochemicals, University of 20 August 1955 Skikda, ALGERIA

Prof. Dr. Michael Havbro Faber – Danish Centre for Risk and Safety Management; Department of the Built Environment, Aalborg University, DENMARK

Dr. José António Silva Carvalho Campos Matos – Coordinator of NORISK Erasmus+ Mundus Joint Master; Coordinator of Risk and Asset Management on Civil Infrastructures Cluster; Director of Transportation and Mobility HUB; Vice President of International Association for Bridges and Structures; Past-President of European Association for Quality Control of Bridges and Structures; Institute for Sustainability and Innovation in Structural Engineering, Civil Engineering Department – School of Engineering, Minho University, Guimaraes, PORTUGAL

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Prof. Dr. Vladislav ZAALISHVILI – Director of Geophysical Institute of Vladikavkaz Scientific Centre, RAS, RUSSIA

Academician Ibragim KERIMOV – Vice-President of the Academy of Sciences of the Chechen Republic, RUSSIA

Dr. Rustam AKBIEV – Central R&D Institute of Russian Ministry of Construction; Eurasian SEISMO Association, RUSSIA

Dr. Rustam GAKAEV – Chechen State University, RUSSIA

Prof. Dr. Igor SHUBINSKY – Editor-in-chief of the Journal “Dependability”. Expert of the Scientific Council for Information Security under the Security Council of the Russian Federation, General Director of CJSC “IBTrans”, RUSSIA

Prof. Dr. Aliakbar RASOULI – Macquarie University, AUSTRALIA

Prof. Dr. Waldemaras MAKUTENAS – Vytautas Magnus University, LITHUANIA

Prof. Dr. Denys DUTYKH – University of Savoie Mont Blanc, FRANCE

Prof. Dr. Limin ZHANG – University of Science and Technology, HONG KONG

Prof. Dr. Roman SAMSONOV – Director of Russian Gas Society, RUSSIA

Prof. Dr. Randell STEPHENSON – School of Geosciences University of Aberdeen, SCOTLAND

Prof. Dr. Mikhail GELFGAT – Gubkin Russian State University of Oil and Gas, RUSSIA

Prof. Dr. Vladimir Gurevich – Central Electrical Laboratory Israel Electric Corp., Haifa, ISRAEL

Prof. Dr. Vladimir NADEIN – President of the Company “Oil and Gas Safety – Energodiagnosics”, RUSSIA

Prof. Dr. Youngcheul KWON – Department of Civil Engineering and Management, Tohoku Institute of Technology, JAPAN

Prof. Dr. Alex SIDORENKO – Institute for Strategic Risk Analysis in Decision Making, Risk Academy, RUSSIA

Dr. Amir ALIYEV – Department of Innovations, AMIR Technical Services Company, AZERBAIJAN

Dr. Branimir FARKAS – Faculty of Mining, Geology and Petroleum Engineering, University of Zagreb, CROATIA

Prof. Dr. Vladimir MOSKVICHEV – Co-Chairman of the Technical Committee (TC-12) “Risk Analysis and Safety of Large Structures and Components” of European Structural Integrity Society (ESIS), Institute of Computational Technologies, RUSSIA

Prof. Dr. Vyacheslav MUSAEV – Technosphere Safety Department, University of Transport, RUSSIA

Prof. Dr. Yuri AMPILOV – Department of Seismometry and Geoacoustics, M.V.Lomonosov Moscow State University, RUSSIA

Prof. Dr. Alexander GELFAN – Director, Water Problem Institute of Russian Academy of Sciences, RUSSIA

Prof. Dr. Nikolai PETROV – Chuvash State University, Cheboksary, RUSSIA

Dr. Arkady GRANOVSKIY – Moscow State University of Civil Engineering, RUSSIA

Dr. Emil GAFAROV – Department of Emergency Situations and Human Life Safety, University of Architecture and Construction, AZERBAIJAN

Ramil KALAEV – Yaroslavl State Technical University, RUSSIA

Prof. Dr. Irina RUDAYA – P.G.Demidov Yaroslavl State University, RUSSIA

Dr. Evgeny TSEYTLIN – Department of Environmental Engineering, Ural State Mining University, RUSSIA

Dr. Anna GUMENYUK – Chuvash State University, Cheboksary, RUSSIA

MAIN BUILDING. ASSEMBLY HALL
Wednesday, November 27, 2024

08:30 – 09:30

09:30 – 10:00

10:00 – 10:45

REGISTRATION

Welcoming greetings

Prof. Dr. Vilayat VALİYEV,
Rector of the Azerbaijan Technical University

Prof. Dr. Sviatoslav TIMASHEV
Nobel Peace Prize (2007)

Prof. Dr. Vugar ALIYEV
General Chair
CEO & Founder
AMIR Technical Services

11:15 – 13:45

INVITED REPORTS

Each keynote speaker will be given 20 minutes



Prof. Dr. Sviatoslav TIMASHEV
Nobel Peace Prize 2007

**The Dual Role of Infrastructures in
Global Warming**

*Science and Engineering Center, Ural Branch of RAS
Ural Federal University, RUSSIA*



Prof. Dr. Ahmet Duran ŞAHİN

**Developing Decision Support Systems
for Climate-Resilient Regions**

Istanbul Technical University, TÜRKİYE



Prof. Mounira ROUAÏNIA

**Industrial Risks and Environmental Degradation.
Case Study: Petrochemical plants**

University of 20 August 1955 Skikda, ALGERIA



Dr. Elena NIKITINA
Nobel Peace Prize 2007

**Challenges of Climate Change:
Innovations in International Adaptive Governance**

*Institute of World Economy and International Relations,
RAS, RUSSIA*

13:45 – 14:45

Lunch break

Azerbaijan Technical University
MAIN BUILDING. ASSEMBLY HALL

Wednesday, November 27, 2024

14:45 – 18:00

JOINT SESSION

Each oral presentations will be allocated 6-7 minutes

Focus Area - 1

Security of complex technical, socio-technical, cyber-physical and transport and logistics systems in the context of increasing climate change

PANEL SESSION

“Interdisciplinary Approach to Analysis of Natural and Technological Risks of Infrastructures”

Section – 1

Technical, Technological and Transportation Risks

Co-Chairs

Prof. Dr. Sviatoslav TIMASHEV, RUSSIA
Dr. Alexander Bochkov

TOWARD RISK FORMALISM. THE SCORE MATCHING METHOD IN A GROUP CHOICE PROBLEM

Alexander Bochkov

STRATEGIC ASSET MANAGEMENT FOR ENHANCING INFRASTRUCTURE RESILIENCE IN THE FACE OF CLIMATE CHANGE: A KUWAITI PERSPECTIVE

Shaikha AlSanad

CONSTRUCTION OF COMPLETE STOCHASTIC LIFE CYCLES OF HIGHLY CRITICAL INFRASTRUCTURES (HCI) WITH ACCOUNTING FOR CLIMATE CHANGE

Sviatoslav Timashev, Anna Bushinskaya

QUALITY OF DATA ON NATURAL DISASTERS COLLECTED BY NLP FROM OPEN MEDIA SOURCES

Gleb Kraev, Tatiana Aniskina, Anna Derkacheva, Maria Sakirkina

AUTOMATED ENTROPY ANALYSIS OF SOCIAL ACTIVITY FOR
COMPREHENSIVE ASSESSMENT OF THE CONSEQUENCES OF
URBAN MAN-MADE NATURAL ACCIDENTS AND CATASTROPHES

Elizaveta Malyutina, Sviatoslav Timashev

CURRENT CONCEPT OF RISK: THE HIGHER THE PROBABILITY OF AN
EVENT, THE LOWER THE RISK

Alexander Fedorets

SMART TECHNOLOGIES AND UAS FOR INTEGRATED RISK AND
EMERGENCY MANAGEMENT OF NATECH EVENTS

Alessandra Marino, Mariano Ciucci

SAFETY MANAGEMENT OF THERMAL POWER INFRASTRUCTURE
USING NEURAL NETWORK MODELING TAKING INTO ACCOUNT
CLIMATE CHANGE

Ludmila Poluyan, Polina Platonova

THE IMPACT OF CLIMATE CHANGE ON THE FUNCTIONAL
RELIABILITY OF ROAD TRANSPORT NETWORKS

Sviatoslav Timashev, Vasily Ponomarev

ON THE RELIABILITY AND EFFICIENCY OF OPERATION OF
MULTIPHASE PIPELINES UNDER HYDRAULIC IMPACT

Elman Iskandarov, Fidan Ismayilova, Magamed Shukurlu, Ramin Aghasanli

ASSESSMENT OF THE CARBON FOOTPRINT OF INFRASTRUCTURES
USING THEIR FULL LIFE CYCLE WITH ACCOUNTING FOR CLIMATE
CHANGE

Sviatoslav Timashev, Tatyana Kovalchuk, Anna Bushinskaya

PREDICTING AND MINIMIZING THE RISK OF RAIL TRANSPORTATION
OF DANGEROUS GOODS IN THE CONDITIONS OF CLIMATE CHANGE

Maria Chikir

PROBABILISTIC ANALYSIS IN THE RELEASE OF LIQUEFIED
PETROLEUM GASES

Khadija Jahangirova, Fidan Ismayilova

ABOUT A RISK OF STUCK PIPE WHILE DRILLING

Gafar Ismayilov, Racu Valiyev, Amrah Gulubayli

ASSESSMENT OF MAN-MADE RISKS IN THE DEVELOPMENT OF
URBAN AREAS IN THE ZONE OF INFLUENCE ON EXISTING METRO
FACILITY

Mikhail Lebedev, Evgeny Stepukov

INVESTIGATION OF DIFFERENT SIMULATION METHODS FOR
EXTRACTING RARE FAILURE EVENTS IN POWER SYSTEM
RELIABILITY EVALUATION

*Vladislav Oboskalov, Sviatoslav Timashev, Amir Abdel Menaem, Rustam
Valiev, Gennady Shmal*

15:15 – 15:45 Coffee break

SOME ASPECTS OF APPLICATION OF INNOVATIVE TECHNOLOGY TO
INCREASE OIL RECOVERY

Karim Seyidrza, Rashida Karimova

ON THE CALCULATION OF THE INTENSITY OF THERMAL RADIATION
IN A FIRE

Khadija Jahangirova, Elman Iskandarov, Fidan Ismayilova

CALCULATING THE COLLISION RISK OF A MOBILE ROBOT WITH A
FUZZY CONTROLLER IN AN ENVIRONMENT WITH DYNAMIC
OBSTACLES

Kifayat Mammadova, Yegana Aliyeva, Aytan Aliyeva

STUDY OF DECISION-MAKING MODELS BASED ON Z NUMBERS
WHEN SOLVING DECISION-MAKING PROBLEMS UNDER CONDITIONS
OF INCOMPLETE INFORMATION

Kifayat Mammadova, Matanat Hasanquliyeva, Ibrahim Abasov

INCREASING THE EFFICIENCY OF ELECTRIC MOBILITY

Nureli Yusifbayli, Ramiz Kalbiyev, Rena Hamidova, Ulker Ekberova

DEVELOPMENT OF A METHODOLOGY FOR RISK ASSESSMENT AND
SELECTION OF MEASURES FOR THEIR MANAGEMENT AT THE
FACILITIES LOCATED IN HIGH LANDSLIDE-PRONE TERRITORIES

Fakhraddin Gabibov, Arzu Zeynalov, Konul Bayramova

ELIMINATION OF THE TRAUMATIC FACTORS OF A FIRE

Siyavush Gezalov, Jamila Imamaliyeva, Tukezban Hasanova

THE SOLUTION ASPECT OF PROBLEMS IN THE OIL FIELDS THAT
HAVE BEEN WORKING FOR A LONG TIME IN THE AZERBAIJAN
REPUBLIC

Karim Karimov, Rahima Nuraliyeva, Rashida Karimova

ON THE PROBABILITY OF COLLAPSING OF SUPPORTS IN A PIPELINE
MOUNTED ON FLEXIBLE SUPPORTS

Elman Iskandarov, Rabiyya Abishova, Ulfat Taghizade

RESEARCH ON THE ROLE OF THE CLUSTER APPROACH IN RISK
MANAGEMENT AT INDUSTRIAL ENTERPRISES

Arzu Mirageidarova, Esmira Mammadova, Aysel Sadigova

LITHOFACIES MODEL AND OIL-GAS PROSPECTS OF MESO-
CENOZOIC DEPOSITS IN SHAMAKHI-GOBUSTAN DEPRESSION

Gultar Nasibova, Ismat Mammadov, Emil Gasimov, Sahila Nasibova

DETERMINATION OF THE COEFFICIENT OF HYDRAULIC RESISTANCE
WHEN USING ANTI-TURBULENCE ADDITIVES

Alexander Nikolaev, Andrey Goluntsov, Alberto Turro Breff

RESEARCH ON THE UTILIZATION OF SECONDARY ENERGY
RESOURCES AND FUEL SAVING IN INTERNAL COMBUSTION ENGINE
POWER PLANTS

Jamala Mammadova, Aytaj Allahverdiyeva (Malikova)

THE CALCULATION OF FIRE AND EXPLOSION HAZARD PRESSURE IN
THE ROOM

Gulnara Zeynalova, Gafar Ismayilov, Ali-Heydar Shahmarov

Azerbaijan Technical University
MAIN BUILDING. SMALL HALL

Wednesday, November 27, 2024

14:45 – 18:00

JOINT SESSION

Each oral presentations will be allocated 6-7 minutes

Focus Area - 2

Reducing the risks of climate-related natural disasters

PANEL SESSION

“Natural disasters”

Sections – 3

Natural Disasters, Ecosystems,
Pollution and Decision Making

Co-Chairs:

Prof. Dr. Avtandil AMIRANASHVILI, GEORGIA
Prof. Dr. Said SAFAROV

DEVELOPING DECISION SUPPORT SYSTEMS FOR CLIMATE-RESILIENT
REGIONS

Tolga Kara, Mehmet Seren Korkmaz and Ahmet Duran Şahin

DATA ANALYTICS FOR EMERGING ENVIRONMENTAL CHALLENGES:
PERSPECTIVES ON RISK GOVERNANCE AND RESILIENCE

Benjamin Trump

ASSESSMENT OF THE LONG-TERM RISK OF DANGEROUS
HURRICANES ON THE TERRITORY OF GEORGIA USING DATA FROM
1961 TO 2022

*Avtandil Amiranashvili, Elizbar Elizbarashvili, George Gaprindashvili, Otar
Varazanashvili, Sven Fuchs*

THE NECESSITY OF MULTI-PURPOSE MONITORING OF THE REPUBLIC OF AZERBAIJAN'S WATER RESOURCES

Ali Rasouli, Said Safarov

WATER RESERVOIR LIFE EXTENSION AND METHODS SPECIFY WATER BALANCE

Lia Matchavariani, Giorgi Metreveli, Ana Metreveli

THE MANAGEMENT OF NaTech EVENTS IN SEVESO SITES FOR THE CASE OF FLOOD RISKS

Romualdo Marrazzo

MINIMIZATION OF CLIMATIC RISKS OF WATERLOGGING ON THE CURONIAN SPIT (BALTIC COAST)

Anastasia Ladygina, Anastasia Mikhailova, Eduard Goge

ADAPTATION OF THE HOUSING AND UTILITIES SECTOR OF BELARUS TO CLIMATE CHANGE

Lubov Hertman

STATISTICAL ANALYSIS OF PARAMETERIZED LANDSLIDE DATA IN GEORGIA FROM 1900 TO 2022

Avtandil Amiranashvili, Elizbar Elizbarashvili, George Gaprindashvili, Otar Varazanashvili, Sven Fuchs

REGIONAL CLIMATE CHANGES IN AZERBAIJAN AND ASSESSMENT OF THEIR IMPACT ON WATER RESOURCES WITH A NEW METHOD

Rza Makhmudov, Vugar Aliyev, Movlud Teymurov, Emil Gafarov

RESEARCH OF THERMAL AND MINERAL WATERS FORMATION CONDITIONS IN THE AZERBAIJAN PART (KARABAKH AND NAKHCHIVAN) OF THE SOUTH CAUCASUS

Ismayilova Mehriban, Tagiyev Allahverdi

FLOOD RISK ASSESSMENT, USING HEC-RAS, GIS AND REMOTE SENSING A CASE STUDY IN AN ARID ENVIRONMENT OF SOUTHEAST MOROCCO

Khadija Diani, Mohamed Hamed Hamza, Hicham Elbelrhiti, Ilias Kacimi, Ali Torabi Haghighi, Mohamed El Amrani, Mohamed Elhag

THE IMPACT OF ECOTOURISM ON THE DIVERSITY AND ECOLOGICAL CONDITION OF THE ECOSYSTEMS OF THE PROTECTED AREAS OF ADJARA

Nani Gvarishvili, Anzor Devadze, Nazi Turmanidze, Mamuka Gogelia, Nunu Nakashidze, Nani Phalavandishvili, Linda Tsintsadze

NEW ENVIRONMENTALLY SAFE COMPOSIT

Eliza Markarashvili, Levan Londaridze, Nunu Labartkava, Neli Sidamonidze

NATURAL DISASTERS, ECOSYSTEMS AND POLLUTION: PROBLEM ANALYSIS AND DECISION-MAKING FOR SUSTAINABLE DEVELOPMENT

Larisa Aguzarova, Fatima Aguzarova, Alina Bekoeva

ANALYZING THE IMPACT OF MICRO-ORGANISMS IN BIODETERIORATION OF STONE IN HISTORICAL MONUMENTS OF INDIA

Mohammad Arif Kamal

15:15 – 15:45 Coffee Break

SOIL RECULTIVATION AND SOIL DAMAGE IN BOSNIA AND HERZEGOVINA

Vesna Tunguz, Turgay Dindaroğlu, Bojana Petrovic

USE OF GIS TECHNOLOGIES AND ARCGIS SOFTWARE IN THE DETERMINATION OF OIL POLLUTION IN THE CASPIAN SEA

Yegana Aliyeva, Kifayat Mammadova, Matanat Hasanguliyeva

THE INCREASE IN THE INTENSITY OF DESERTIFICATION DUE TO CLIMATE CHANGE IN THE TERRITORY OF THE NORTH CHECHEN LOWLAND

Idris Bayrakov

MUDFLOW HAZARD IN THE ARGUN RIVER BASIN: ASSESSMENT AND MAPPING

Idris Bayrakov

ASSESSMENT OF THE POTENTIAL FOR USE OF THERMAL WATERS OF THE ABSHERON PENINSULA AS A RENEWABLE ENERGY SOURCE

Sevinj Rzaeva, Allahverdi Tagiyev, Valida Abdullayeva

ECOLOGICAL CULTURE AS A CONDITION FOR THE FORMATION OF HUMAN POTENTIAL

Albina Berkaeva, Svetlana Dzusova, Natalya Stolbovskaya, Olga Novoselova, Evgeniy Gridnev

INNOVATIVE COMPOSITES MADE FROM RUBBER WASTE

Eliza Markarashvili, Zurab Bazhgadze, Iosep Chikvaidze, Ana Khakhutaishvili, Nino Kiknadze, Nargiz Megrelidze

PRODUCTION ASSESSMENT ON EFFICIENCY OF USING ALTERNATIVE ENERGY SUPPLY OPTIONS

Arzu Mirageidarova, Esmira Mammadova, Jabrayilov Rashid

VARIABILITY IN THE NUMBER OF DAYS WITH HAIL IN THE WARM HALF OF THE YEAR ON THE TERRITORY OF GEORGIA IN 1941-2021

Mikheil Pipia, Avtandil Amiranashvili, Elizbar Elizbarashvili, Otar Varazanashvili, Nazibrola Beglarashvili, Nino Jamrishvili

USE OF SOLAR ENERGY RESOURCES IN THE TERRITORY OF THE REPUBLIC OF AZERBAIJAN

Nurali Yusifbeyli, Ramiz Kalbiyev, Rena Hamidova

PERSPECTIVES OF USE OF MINERAL AND THERMAL WATERS FORMED IN TALISH TERRITORY

Ilqar Namazov, Allahverdi Tagiyev, Jafar Sharifov

DIVERSITY OF NATURALLY REGENERATED FOREST ECOSYSTEMS AND EVALUATION OF THE ECOLOGICAL (SOIL COVER) CONDITION ON THE LANDSLIDE SLOPES OF THE SKHALTA RIVER

Nino Kiknadze, Nani Gvarishvili, Gultamze Tavdgiridze, Shota Lominadze, Darejan Jashi, Aleksandre Sharabidze, Lia Davitadze, Ana Khakhutaishvili

TECHNOLOGY FOR PRODUCING GREEN ENERGY FROM POLLUTED LAKES ON THE APSHERON PENINSULA AND ITS ECO-ECONOMIC JUSTIFICATION

Elman Aliyev, Mehriban Ismayilova, Arif Alekhperov

TRAVELERS' ENVIRONMENTAL RESPONSIBILITY IN THE CITY OF BATUMI AND THE CITY'S SUSTAINABLE DEVELOPMENT

Anzor Devadze, Paata Chaganava, Irakli Kordzaia, Rostom Beridze, Tsira Tsetskhladze

Azerbaijan Technical University
MAIN BUILDING. HEYDAR ALIYEV CENTER

Wednesday, November 27, 2024

14:45 – 18:00

JOINT SESSION

Each oral presentations will be allocated 6-7 minutes

Focus Area - 2

Reducing the risks of climate-related natural disasters

Panel Session

Seismic Risks and Comprehensive Urban Safety

Prof. Dr. Vladislav ZAALISHVILI, RUSSIA

Dr. Rustam AKBIEV, RUSSIA

Co-Chairs

THE MAIN DISADVANTAGES OF MAPS OF THE GENERAL SEISMIC ZONING OF RUSSIA AND POSSIBLE WAYS TO OVERCOME THEM

Petr Shebalin

SEISMIC RISK OF URBANIZED TERRITORY IN A MOUNTAINOUS REGION

Vladislav Zaalishvili

COMPREHENSIVE CONSTRUCTION SAFETY IN SEISMIC ZONES

Rustam Akbiev, Lidia Berzhinskaya

RISK MANAGEMENT USING ARTIFICIAL INTELLIGENCE IN THE ORGANIZATION OF CONSTRUCTION AND ERECTION OF MONOLITHIC REINFORCED CONCRETE STRUCTURES IN THE FAR NORTH AND ARCTIC ZONE CONDITIONS

Azariy Lapidus, Tembot Bidov, Alan Khubaev, Roman Samsonov

GENERAL PRINCIPLES ON SEISMICALLY ISOLATED STRUCTURES. ISO STANDARD 23618TR AND REALITY

Viktor Kostarev

ASSESSMENT OF THE VULNERABILITY OF BUILDINGS DURING THAWING OF PERMAFROST SOILS

Temir Nigmatov, Gennady Nigmatov, Andrei Savinov

CERTIFICATION AND SAFETY MONITORING OF FACILITIES IN SEISMIC ZONES. PROBLEMS, ACHIEVEMENTS, PROSPECTS

Vladimir Guryev, Rustam Akbiev, Tatyana Morozova

RISK-ORIENTED APPROACH TO THE RECONSTRUCTION OF RESIDENTIAL BUILDINGS AND STRUCTURES IN THE ARCTIC ZONE

Azariy Lapidus, Alan Khubaev, Tembot Bidov, Roman Samsonov

FREE OSCILLATIONS OF EARTHQUAKE SOURCE

Felix Aptikaev

DEVICES INCREASING SEISMIC RESISTANCE OF NEW AND BUILT STRUCTURES WITH VARIOUS HEIGHT BASED ON TUNED MASS DAMPERS (TMD) AND WALL DAMPERS (WD)

Maxim Vayndrakh

DEVICES INCREASING SEISMIC RESISTANCE OF NEW AND OPERATED BUILDINGS OF VARIOUS HEIGHTS AND DESIGNS BASED ON THE USE OF A DYNAMIC VIBRATION DAMPER AND WALL DAMPERS

Dmitry Bondarev

MODERN EXPERIENCE OF SEISMIC ISOLATION OF CIVIL BUILDINGS AND SOCIALLY SIGNIFICANT FACILITIES

Dmitry Glazkov, Kolesnikov Alexey, Rustam Akbiev

VERTICAL COMPONENT LEVEL OF SEISMIC GROUND MOTION VELOCITY

Olga Ertelova

EXTREME DESIGN STORMS FOR FLOATING NUCLEAR POWER PLANT PROJECTS

Izmail Kantarzhi

ENGINEERING AND ECOLOGICAL METHODS FOR PROTECTION
AGAINST CATASTROPHIC NATURAL PROCESSES CAUSED BY
GLOBAL CLIMATE CHANGE

*Fakhraddin Habibov, Lala Huseynova, Aytan Ahmedova, Amina
Huseynova*

PROBLEMS OF ASSESSING THE VULNERABILITY OF BUILDINGS
AND STRUCTURES UNDER CLIMATE CHANGE CONDITIONS

Gennady Nigmatov, Andrei Savinov, Temir Nigmatov

GEOLOGICAL HAZARDS MAPPING AT THE KALININGRAD AREA OF
THE BALTIC SEA

Vadim Sivkov, Leyla Bashirova

NATURAL AND MAN-MADE DAMAGING FACTORS IN RISK
ASSESSMENT OF INDUSTRIAL AND ENVIRONMENTAL SAFETY

Nikolai Makhutov, A.Chirkova, Vladimir Nadein

MORPHODYNAMICS OF THE BLACK SEA COASTAL ZONE OF
ADJARA AND MODERN APPROACHES

Irma Makalatia, Kakhaber Bilashvili, Davit Kereselidze

METHODOLOGY OF ASSESSING TERRITORIAL RISKS OF THE
ARCTIC ZONE OF KRASNOYARSK REGION IN THE
IMPLEMENTATION OF INVESTMENT PROJECTS

Ulyana Postnikova

THE GEOLOGICAL RISK OF CHANGING THE PARAMETERS OF THE
RESERVOIRS DEPENDING ON THE DEPTH IN A NUMBER OF FIELDS
OF THE BAKU ARCHIPELAGO

*Gultar Nasibova, Khuraman Mukhtarova, Shura Ganbarova, Sahila
Nasibova*

STUDY OF VULNERABILITY AND PROTECTION OF BUILDINGS AND
STRUCTURES ON STRUCTURALLY UNSTABLE CLAY SOILS

Fakhraddin Gabibov

ASSESSING THE VULNERABILITY OF BUILDINGS TO THE THREAT OF KARST SINKHOLES

Andrei Savinov, Gennady Nigmatov, Temir Nigmatov

AVALANCE DANGER ON ROADS IN MOUNTAINOUS REGIONS OF GEORGIA USING THE EXAMPLE OF RACHA-LECHKHUMI KVEMO SVANETI REGION

Nazibrola Beglarashvili, Mikheil Pipia, Sophio Gorgijanidze, Nodar Varamashvili, Natela Kobakhidze, Gocha Jintcharadze, Givi Pipia

SUSTAINABLE DEVELOPMENT OF RURAL AREAS IN SIBERIA IN THE CONTEXT OF GLOBAL CLIMATE CHANGE

Marina Petukhova

ZERO ENERGY BUILDINGS AND TOWNS

Adila Zeynalova, Esmira Mammadova

A PRIORI AND A POSTERIORI STATISTICAL ESTIMATES OF SEISMIC RISK VALUES BASED ON THE RESULTS OF CERTIFICATION

Yeraly Shokbarov, Akymbek Abdykalykov, Vladimer Lapin, Begman Kulbaev, Serik Aldakhov, Erken Aldakhov, Gani Temiraliuly

SEISMIC HAZARD FOR AN OIL AND GAS FIELD IN THE WATERS OF THE MIDDLE CASPIAN SEA

Sergey Mironyuk, Sergey Kovachev, Artyom Krylov, Mikhail Tokarev

SEISMIC RESISTANCE OF OLD-BUILD STRUCTURES IN OPERATION

Alexander Uzdin, Rustam Akbiev, Ruslan Geydarov, Galina Sorokina

Azerbaijan Technical University
MAIN BUILDING. ASSEMBLY HALL

Thursday, November 28, 2024

10:00 – 13:00

JOINT SESSION

Each oral presentations will be allocated 6-7 minutes

Focus Area - 1

Security of complex technical, socio-technical, cyber-physical and transport and logistics systems in the context of increasing climate change

PANEL SESSIONS

“Interdisciplinary Approach to Analysis of Natural and Technological Risks of Infrastructures”

Section – 1

Technical, Technological and Transportation Risks

Co-Chairs:

Prof. Dr. Roman SAMSONOV, RUSSIA
Prof. Irina Bondarik, RUSSIA

**INCREASING ENERGY EFFICIENCY IN ENERGY PRODUCTION: THE
ROLE OF COMBINED HEAT AND POWER SYSTEMS**

Aydin Muradaliyev, Islam Mammadov

**ON SOME NEW ISSUES RELATED TO THE RISKS OF INCORRECT
DATING OF DOCUMENTS IN THE LEGAL PROCESS (MINI REVIEW)**

*Dmitry Mokhorov, Pavel Menshikov, Alena Fogel, Bakhtiyor Rasulov,
Vladimir Kochemirovsky*

MODELING OF EMERGENCY OIL SPILL IN FREE MODE OF FLOW

*Gafar Ismayilov, Fidan Ismayilova, Zeynalov Rovshan,
Jahangirova Khadija*

**SELECTION OF THE OPERATION MODE OF A GAS-LIFT WELLS
GROUP BASED ON THE THEORY OF DECISION-MAKING UNDER RISK
CONDITIONS**

Samira Abbasova Gulbahar Mammadova

REDUCING THE ENVIRONMENTAL LOAD DURING OPERATION OF INTERNAL COMBUSTION ENGINES USING TRIBOCOMPOSITIONS

Evgeny Guryev, Robert Novikov

PROBABILITY OF EMERGENCY RELEASE DURING DEPRESSURIZATION

Qazanfar Suleymanov, Hajar Ismayilova, Ulviyya Huseynova, Zulfiyya Mammedova

RESEARCH ON THE UTILIZATION OF SECONDARY ENERGY RESOURCES AND FUEL SAVING IN INTERNAL COMPUSTION ENGINE POWER PLANTS

Jamala Mamedova, Aytaj Allahverdiyeva (Malikova)

ASSESSMENT OF THE TRANSMITTANCE OF MODERN PERSONAL RESPIRATORY PROTECTION EQUIPMENT FOR WELDING AND GALVANIC FUMES

Konstantin Kirichenko, Aleksei Kholodov, Igor Vakhniuk, Aleksander Gridasov, Anton Pogodaev, Irina Tarasenko, Kirill Golokhvast, Yuri Kalinin

THE INFLUENCE OF CLIMATIC FACTORS ON THE PROCESSES OF NATURAL AND ARTIFICIAL AGING OF DOCUMENTS

Svetlana Kochemirovskaya, Dmitry Mokhorov, Matanat Mehrabova, Kamal Gulmemmedov, Vladimir Kochemirovsky

ECONOMETRIC ASSESSMENT OF THE IMPACT OF VOLUME OF RADON EMISSIONS PER CAPITA IN THE REPUBLIC OF AZERBAIJAN

Nurali Nuraliyev, Gulnara Mamedova, Lala Ismailova

RISK REDUCTION IN WELL FLOW LINES BASED ON EARLY DIAGNOSIS OF COMPLICATIONS

Ramiz Ismayilov, Rugiya Asgerova

AUTOMATED CONTROL SYSTEM FOR THE SUPPLY OF LIQUID FUEL TO A TUBE FURNACE

Aygun Safarova, Elchin Melikov, Tamella Magerramova

11:30-12:00 Coffee break

ANALYSIS OF THE TECHNOLOGY FOR PREVENTION OF HYDRATION RISKS IN TRANSPORTATION PROCESS OF GAS BY PIPELINE

Fikrat Seyfiyev, Sahib Abdurahimov, Irada Hajiyeva, Ulfat Taghizadeh, Nurlan Amiraslanli

EFFECT OF TEMPERATURE AND IONS CONCENTRATION ON THE DENSITY AND SPEED OF SOUND OF NATURAL MINERAL WATERS FROM THE REGION OF SOUTH RUSSIA

Misirkhan Talybov, Ilmutdin Abdulagatov

ANALYTICAL DETERMINATION OF THE CRITICAL VALUE OF WELL FLOW RATE DURING FLOWING OPERATION

Yusif Orujov, Sakit Abbasov

MULTIMEDIA SUPPORT SYSTEM FOR AEROSPACE MONITORING OF EMERGENCY SITUATION BASED ON AI TECHNOLOGIES

Nazif Sattarov

INNOVATIVE TECHNOLOGIES AND THEIR IMPACT ON REDUCING TECHNICAL RISKS

Zalina Ibragimova, Naila Teplaya, Zulay Isakieva

THE IMPACT OF DIGITAL TECHNOLOGIES ON SUSTAINABLE CONSUMPTION AND PRODUCTION

Olga Ermolovskaya

THE ROLE OF DIGITAL PERSONALITY IN PROMOTING SUSTAINABLE BEHAVIOR

Natalia Alexandrova, Elena Arbuzova

THE ROLE OF ARTIFICIAL INTELLIGENCE IN FORECASTING AND MANAGING TECHNICAL RISKS

Phuc Hau Nguyen, Sergey Shkodinsky, Valentina Syrovatskaya, Zalina Khokhoeva

IMPROVING THE RELIABILITY OF ENGINE TIMING PARTS WITH THE USE OF ADVANCED NICKEL-COPPER COATINGS

Serik Toigambaev, Otari Didmanidze, E.S. Bukanov, Alexander Bugaev, Shakizada Niyazbekova

OPTIMIZATION OF THE ECONOMIC POTENTIAL OF THE INDUSTRY
ON THE BASIS OF MATRIX ALGORITHM OF DECISION MAKING

Larisa Narkevich

AUTOMATION OF TRANSPORT AND WAREHOUSE OPERATIONS
BASED ON THE DEVELOPMENT OF ADAPTIVE SYSTEM TO REDUCE
RISKS FOR MANAGING WAREHOUSE LOGISTICS AT AGRICULTURAL
ENTERPRISES

*Irina Bolodurina, Rustam Rakhmatullin, Evgeny Speshilov, Andrey
Tsukanov*

PROBABILITY OF IGNITION SOURCE OCCURRENCE AT HAZARDOUS
OIL AND GAS PRODUCTION FACILITIES

*Malik Abdullayev, Samira Mansurova, Sevda Shikhiyeva, Fahmin Azizli,
Hecer Ismayilova*

OPTIMIZATION OF THE ECONOMIC POTENTIAL OF THE ENTERPRISE
ON THE BASIS OF A STRATEGIC DECISION-MAKING MATRIX

Larisa Narkevich

ANALYSIS OF FIRE PROBABILITIES OF BLOWOUT ACCIDENT FROM
OIL RESERVOIR

*Elman Iskandarov, Hajar Ismayilova, Meherrem Harbizade, Mahabbat
Hasanova*

13:30 – 14:30 Lunch break

Azerbaijan Technical University
MAIN BUILDING. HEYDAR ALIYEV CENTER

Thursday, November 28, 2024

10:00 – 13:45

JOINT SESSION

Each oral presentations will be allocated 6-7 minutes

Focus Area - 2

Reducing the risks of climate-related natural disasters

PANEL SESSION

“Natural disasters”

Sections – 2

Climate Risks, Vulnerability and Resilience Building

Co-Chairs:

Prof. Dr. Fariz MAMMADOV, AZERBAIJAN
Prof. Dr. Merab PKHOVELISHVILI

PREDICTION OF THE AMOUNT OF PRINTING INKS CAUSING
ENVIRONMENTAL POLLUTION

Eldar Aliyev, Isa Khalilov, Shabnam Ismailova

A HYBRID FORECASTING MODEL BUILDING STRATEGY

Vugar Aliyev, Merab Pkhovelishvili, Natela Archvadze

TECHNICAL AND ECONOMIC ASPECTS OF REDUCING CARBON
DIOXIDE EMISSIONS INTO THE ATMOSPHERE

Eldar Gasumov, Valiev Vilayat, Ramiz Gasumov, Gazanfar Suleymanov

THE FEATURES OF AROMATIC HYDROCARBONS IN LIQUID
PRODUCTS OF CATALYTIC OXYCRACKING OF VACUUM GAS OIL

Elvira Guseinova, Gahraman Hasanov, Irada Khalafova

ANALYSING THE FUNCTIONALITY OF OIL WELL REHABILITATION
EQUIPMENT FROM A SAFETY AND ENVIRONMENTAL PERSPECTIVE

Javahir Gasimova, Rafiq Shahmarova, Saida Musavi

ASSESSMENT OF ACTIVE IMPACT ON HAIL EFFECTS IN KAKHETI
REGION (GEORGIA)

Giorgi Katcharava, Nunu Berulava, Giorgi Gelovani, Lamzira Laghidze

NATURAL AND MAN-MADE CLIMATE CHANGES IN THE HOLOCENE

Rustam Gakaev, Arun Daukaev

QUALITY OF DATA ON NATURAL DISASTERS COLLECTED BY NLP
FROM OPEN MEDIA SOURCES

Gleb Kraev, Tatiana Aniskina, Anna Derkacheva, Maria Sakirkina

THE INFLUENCE OF CIRCULATION PROCESSES ON THE
ECOLOGICAL CONDITION OF TBILISI CITY IN THE BACKGROUND OF
CLIMATE CHANGE

*Lamzira Lagidze, Lia Matchavariani, Nodar Tsvitsivadze, Giorgi Bregvadze,
Nino Paichadze*

PROTECTION OF WATER RESOURCES BY USING
ENVIRONMENTALLY-FRIENDLY BIOADSORBENTS

Minira Aghahuseynova, Leyla Vazirova

DIAGNOSIS OF OIL SPILLS FROM SUBSEA PIPELINES

Mansur Shahlarli, Hajar Ismayilova, Gulnara Zeynalova

NEW APPROACHES TO OILY WASTE TREATMENT TO MINIMISE
TECHNOLOGY-RELATED THREATS AND RISKS

Sakhiba Kalaeva, Eduard Tshovrebov, Alena Gennadieva, Ramil Kalaev

THE INVESTIGATION OF THE EFFICIENT OPERATING MODES OF
VARIOUS SOURCE HEAT PUMPS IN THE HEATING SYSTEMS OF
INDIVIDUAL RESIDENTIAL HOUSES IN KHANKENDI

Sevinj Babayeva

MINING ACTIVITY IN GEORGIA AND NON-STATIONARY MODEL OF
INTENSIVE CHANGE OF SOIL POLLUTION

Sophiko Matiashvili, Zurab Kereselidze, Irina Khvedelidze

Azerbaijan Technical University
MAIN BUILDING. SMALL HALL

Thursday, November 28, 2024

10:00 – 13:45

JOINT SESSION

Each oral presentations will be allocated 6-7 minutes

Focus Area - 3

Ensuring resilience of Spatial Development
in the Current Climate Reality

PANEL SESSION

“Ensuring the Sustainability of Spatial Development in
the Current Climate Reality ”

Sections – 4

Human Factor in the Sustainable Paradigm

Co-Chairs:

Prof. Dr. Georgy FOMENKO, RUSSIA
Prof. Dr. Larisa AGUZAROVA, RUSSIA

CLIMATE CHALLENGES AND RISKS: INTERNATIONAL SYSTEM OF
ADAPTIVE GOVERNANCE

Elena Nikitina

CLIMATE RESILIENT SUPPLY CHAINS: UNDERSTANDING NETWORK
RISK DEPENDENCIES AND PROPOGATION

Elkafi Hassini

SPATIAL DESIGN ACTIVITY IN THE CURRENT CONTEXT OF HIGH
CLIMATE UNCERTAINTIES AND RISKS

Georgy Fomenko

AN INTEGRATED STRATEGY PROCESS FOR IMPROVING CI
RESILIENCE AGAINST FUTURE PANDEMICS

Stefan Schauer

USING INNOVATIVE GAMES TO BUILD KNOWLEDGE BASES IN
SPATIAL RISK ANALYSIS

Nina Aniskina, Vladimir Gorokhov

RESOURCE-SAVING TECHNOLOGIES IN AGRICULTURE AS A WAY TO ELIMINATE FOOD SECURITY RISKS

Irina Bondarik, Ksenia Shumakova, Irina Rodkina, Anna Romanovskaya

STANDARDIZATION OF HYDROGEN AS A BASIS FOR RISK MANAGEMENT DURING ITS TRANSPORTATION AND THE DEVELOPMENT OF UNIFORM RULES

Roman Samsonov, Daria Michurina

TRENDS IN SCIENTIFIC RESEARCH ON TECHNOLOGICAL ASPECTS OF GREEN ENERGY TRANSITION

Samira Akbarova, Reyhan Akbarli

NEW APPROACHES TO THE MANAGEMENT OF NATIONAL NATURAL PARKS IN THE CURRENT CONDITIONS OF INCREASING RISKS

Georgy Fomenko, Marina Fomenko, Konstantin Loshadkin, Eduard Goge, Anastasia Mihailova, Elena Arabova

CLIMATE CHANGE STATISTICS – A RESPONSE TO THE CLIMATE CHALLENGES OF MODERN TIMES: THE EXPERIENCE OF THE KYRGYZ REPUBLIC

Georgy Fomenko, Nazira Kerimalieva, Kanykei Orozbayeva, Marina Fomenko, Tatiana Chernikova, Elena Doronina, Andrey Podrezov, Konstantin Loshadkin, Anastasia Mihailova, Elena Arabova

THE CONCEPT OF SUSTAINABLE DEVELOPMENT AND FINANCIAL MECHANISMS: GREEN HYDROGEN AND BLUE BONDS

Natalia Pozhilova

ESG APPROACHES IN BUSINESS AS THE FORMATION OF NEW THINKING

Ekaterina Nezhnikova

TAXES AS A TOOL TO ENSURE ENVIRONMENTAL SAFETY

Larisa Aguzarova, Fatima Aguzarova, Kamilla Tsallaeva

THE ROLE OF FORESTS IN THE CARBON CYCLE: MECHANISMS OF CARBON ABSORPTION AND STORAGE

Elita Yaumieva, Aishat Baysangurova, Islam Gumaev

STUDY OF INNOVATIVE METHODS IN EVALUATION AND EFFICIENT
PLACEMENT OF PERSONNEL COMPOSITION IN AN INDUSTRIAL
ENTERPRISE

Esmira Mammadova, Arzu Mirageidarova, Aysel Sadigova

THE ROLE OF THE GEODYNAMIC REGIME IN THE FORMATION OF
STRUCTURES AND THE FORECASTING OF OIL AND GAS
PROSPECTS IN THE AJINOHUR DEPRESSION

Gultar Nasibova, Khuraman Mukhtarova, Mehriban Ismayilova

11:30-13:00 Coffee Break

CLIMATE CHANGE TENDENCY AND CHALLENGE OF WATER USE IN
AGRICULTURE IN LITHUANIA

Otilija Miseckaite

ENVIRONMENTAL RISK MANAGEMENT IN THE STRUCTURE OF
GLOBAL RISK ASSESSMENT

Daria Maltseva, Olga Safonova, Daniil Fedotov

GREENHOUSE GAS ANALYSIS AT THE CARBON TEST SITE OF THE
CHECHEN REPUBLIC: MONITORING METHODS AND RESULTS

Aina Vagapova, Luiza Mukaeva, Nadir Gadzhiev

CARBON POLYGONS AND THEIR IMPACT ON LOCAL ECOSYSTEMS:
INTERACTIONS AND CONSEQUENCES

Luiza Mukaeva, Aina Vagapova, Nadir Gadzhiev

HUMAN POTENTIAL OF SUSTAINABLE DEVELOPMENT OF SOCIO-
ECONOMIC SYSTEMS

*Svetlana Tokaeva, Anzhela Namitulina, Evelina Gagloeva, Tanzilya
Doguchaeva, Oleg Slanov*

DEVELOPMENT OF SMALL AND MEDIUM BUSINESS IN CONDITIONS
OF SUSTAINABLE DEVELOPMENT

Desly Musostova, Valentina Dzobelova, Nina Shestakova

PHYSIOGRAPHICAL CHALLENGES OF MOUNTAINOUS AREAS

Roza Akhmieva, Tumisha Bachaeva, Muslim Eskiev

COMMUNITIES WITH EURPHORBIA MACULATA L. IN THE
NORTH CAUCASUS AND THEIR SYNTAXONIC CLASSIFICATION IN
EASTERN EUROPE

Yulia Postarnak

PROBLEMS OF CONSERVATION OF BIODIVERSITY IN THE
CHECHEN REPUBLIC: CONDITIONS AND ANALYSIS

Tumisha Bachaeva, Roza Akhmieva, Muslim Eskiev

ANTHROPOGENIC ACTIVITIES AND ITS ROLE IN THE FORMATION
OF LANDSLIDE PROCESSES IN THE MOUNTAIN TERRITORIES OF
THE CHECHEN REPUBLIC

Rustam Gakaev, Alexey Gunya, Liana Gatsayeva

PERSPECTIVES OF USE OF MINERAL AND THERMAL WATERS
FORMED IN TALISH TERRITORY

Namazov Ilqar, Tagiyev Allahverdi, Sharifov Jafar

ECONOMIC RISKS IN THE CONDITIONS OF DIGITAL
TRANSFORMATION

*Svetlana Tokaeva, Marina Dubrova, Salih Akh. Bayzulaev, Maria Tokaeva,
David Tabolov*

SUSTAINABLE TOOLS FOR BUSINESS PROCESSES IMPROVEMENT

Musa Basnukaev, Olga Makashina, Zelimkhan Musostov

SOCIO-ECONOMIC AND ECOLOGICAL FACTORS IN THE PARADIGM
OF SUSTAINABLE DEVELOPMENT

Musa Basnukaev, Aleksandra Mambetova, Ismail Bataev

DEVELOPMENT OF AGRICULTURAL INDUSTRY IN THE PARADIGM
OF SUSTAINABLE DEVELOPMENT

Isa Basnukaev, Zelimkhan Musostov, Margarita Shestakova

SOCIO-ECONOMIC ASPECTS OF SUSTAINABLE DEVELOPMENT OF
THE REGION

Musa Basnukaev, Zelimkhan Musostov, Albina Tokaeva

YOUNG SPECIALISTS EMPLOYMENT AS A FACTOR OF
SUSTAINABLE RURAL DEVELOPMENT

Bella Tokaeva

PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

Deshty Musostova, Varvara Markaryan, Fatima Dzodzikova

THERMAL-PHYSICAL CHARACTERISTICS OF GALA-ALTI GEOTHERMAL WATER OF SHABRAN DISTRICT OF AZERBAIJAN AT HIGH PRESSURE AND TEMPERATURES

Esmira Mammadova, Adila Zeynalova, Humay Maharramli

THE STUDY ON THE POTENTIAL OF SOLAR POWER TOWER AND SUPERCRITICAL CARBON DIOXIDE BRAYTON CYCLE TO REDUCE CARBON EMISSION IN AZERBAIJAN

Faig Kalbaliyev, Lala Akhmedova-Azizova, Ulviyye Nasibova

GLOBAL CLIMATE CHANGE AND TEMPERATURE BALANCE: RISKS AND PROSPECTS

Fakhraddin Yusubov, Govhar Valiyeva, Igor Nasirov

13:00-14:00 Lunch break

IMPROVING THE EFFICIENCY OF DISTRIBUTIVE NETWORKS WITH THE APPLICATION OF GREEN TECHNOLOGIES

Huseyngulu Guliyev, Nijat Huseynov

TRANSITION TO INNOVATIVE METALLURGICAL TECHNOLOGIES – PRIORITY DIRECTION OF DECARBONIZATION

*Arif Mammadov, Nizami Ismailov, Agil Babayev, Mukhtar Huseynov,
Batura Musurzayeva, Afet Jafarova*

DYNAMIC MODELLING AND MULTIPHASE FLOW OPTIMISATION – GARANTEUR OF SAFE AND SECURE HYDROCARBON PRODUCTION

Rufat Mangushev, Gafar Ismayilov

RESTORATION OF SOILS THAT HAVE LOST FERTILITY DUE TO UNFAVOURABLE CLIMATIC CONDITIONS

Najiba Shirinova

MODELING STRUCTURAL-TECTONIC CHARACTERISTICS OF EASTERN FIELDS OF ABSHERON PENINSULA AND THE RISK OF TECTONIC IMPACT ON OIL-GAS BEARING

Namet Pashayev, Rufat Shahbazov, Firdus Karimzada

TECHNICAL RISKS IN MODERN LOGISTICS

Desly Musostova, Isa Basnukaev, Varvara Markaryan

MAIN DIRECTIONS OF DEVELOPMENT OF MARGINAL OIL FIELDS OF THE CASPIAN SECTOR OF AZERBAIJAN

Zulfiyya Mammedova, Natavan Ibrahimova, Emiliya Shakhverenova

IMPROVING THE EFFICIENCY OF DISTRIBUTIVE NETWORKS WITH THE APPLICATION OF GREEN TECHNOLOGIES

Nijat Huseynov, Huseyngulu Guliyev

THE RISK OF CHANGE IN THE THICKNESS, SAND AND OIL-GAS CONTENT OF THE PRODUCTIVE SERIES SEDIMENTS ON THE NORTHERN SLOPE OF THE SOUTH CASPIAN DEPRESSION

Shura Ganbarova, Sevil Zeynalova, Tamella Zahidova

THE ROLE OF SOLID STATE GRAVITY ENERGY STORAGE TECHNOLOGY IN CLIMATE CHANGE

Jivishov Vusal, Mazhlumov Nijat

ASSESSMENT OF THE IMPACT OF THE POTENTIAL USE OF WIND POWER AT OFFSHORE OIL & GAS PLATFORMS IN AZERBAIJAN

Fariz Mammadov, Ali Pashayev

SYSTEMATIC AND BIOMORPHOLOGICAL ANALYSIS OF AQUATIC PLANTS OF THE CHECHEN REPUBLIC

Zazu Iriskhanova, Ekaterina Aristarkhova, Birlant Khasueva

RISKS IN ENTREPRENEURIAL ACTIVITY OF ENTERPRISES

Albina Berkaeva, Georgiy Kutsuri, Anna Maruashvili, Svetlana Pasternak

INTERNATIONAL PRACTICE OF TAX RISK MANAGEMENT

Valentina Dzobelova, Tengiz Tinikashvili, Irina Yablochnikova, Elvira Nurdavliatova, Sofya Gugkaeva

MAIN TRENDS IN INVESTMENT RISK MANAGEMENT

Valentina Dzobelova, Sergey Yablochnikov, Margarita Vasyunina, Natalya Stolbovskaya, Elena Kumalagova

Azerbaijan Technical University
MAIN BUILDING. SMALL HALL

Friday, November 29, 2024

10:00 – 13:45

POSTER SESSION

A COMPARATIVE STUDY OF ATTITUDES TOWARDS ENVIRONMENTAL
ISSUES IN THE DIGITAL ENVIRONMENT AND REALITY

Margarita Shapovalova, Svetlana Nikulina, Natalia Voloskova, Elena Enns

THE IMPACT OF THE COVID-19 PANDEMIC ON GLOBAL
ENVIRONMENTAL CHANGE AND ITS CONSEQUENCES FOR HUMAN
HEALTH

*Marziyat Sarbasheva, Zukhra Makhieva, Aina Maltsagova, Laura
Khadzhieva, Magomed Dzhafarov*

HUMAN HEALTH AND THE ECOSYSTEM: THE RELATIONSHIP
BETWEEN ECOLOGICAL STATUS AND QUALITY OF LIFE

Elena Arbuzova, Lyudmila Kubrina

A RESEARCH OF THE DIGITAL TRACE OF INDIVIDUALITY IN RELATION
TO ENVIRONMENTALLY RESPONSIBLE BEHAVIOR

Margarita Shapovalova, Elena Serdyukova, Rita Iagodkina

CLIMATE AGENDA: THE ROLE OF INTERNATIONAL AGREEMENTS IN
COMBATING GLOBAL WARMING

Khadizhat Mamalova, Zalina Galazova

SEASONAL CLIMATE CHANGES AND THEIR IMPACT ON FEMALE
STUDENTS' IMMUNITY: RELATIONSHIP WITH THE CONCEPT OF
SUSTAINABLE DEVELOPMENT

Vakha Anzorov, Svetlana Moryakina

DEVELOPMENT OF THE AGRICULTURAL SECTOR AS AN IMPORTANT
AREA OF EMPLOYMENT AND INCOME GROWTH FOR RUSSIANS

Leila Gishkaeva, Olga Anokhina

THE INFLUENCE OF CLIMATIC CONDITIONS ON THE ADAPTATION OF
THE CARDIOVASCULAR SYSTEM OF STUDENTS TO PHYSICAL
ACTIVITY: ASPECTS OF SUSTAINABLE DEVELOPMENT IN EDUCATION

Saidkhamzat Abumuslimov, Zarema Magomedova

CLIMATE CHANGE IN MOUNTAINOUS REGIONS AND ITS IMPACT ON
THE PHYSICAL DEVELOPMENT OF YOUNG PEOPLE: PROBLEMS AND
PROSPECTS

Svetlana Moryakina, Vakha Anzorov

SMALL BUSINESS AND GREEN ECONOMY: POINTS OF INTERACTION

Leila Gishkaeva, Lyudmila Goloshchapova, Darya Golyzhnikova

MONITORING THE STATE OF AGRICULTURAL LANDS IN THE CHECHEN
REPUBLIC USING GIS TECHNOLOGIES

Nurbek Adaev, Aset Amaeva, Malika Israpilova

PRINCIPLES OF SUSTAINABLE DEVELOPMENT: REGIONAL ASPECT

Leila Gishkaeva, Natalia Savina, Bakhtiyar Badalov

SYSTEMATIC AND BIOMORPHOLOGICAL ANALYSIS OF AQUATIC
PLANTS OF THE CHECHEN REPUBLIC

Zazu Iriskhanova, Ekaterina Aristarkhova, Birlant Khasueva

TAX POLICY AS A TOOL FOR STIMULATING SUSTAINABLE
DEVELOPMENT: INTERNATIONAL AND RUSSIAN EXPERIENCE

Zulfiya Laipanova

THE IMPACT OF SUSTAINABLE DEVELOPMENT ON ECONOMIC
GROWTH: BALANCING ENVIRONMENTAL, SOCIAL AND ECONOMIC
FACTORS

Elena Mezentseva, Malika Baysaeva, Nurulla Fayzullaev

THE ROLE OF GREEN ECONOMY IN ACHIEVING SUSTAINABLE
DEVELOPMENT GOALS: PROSPECTS AND CHALLENGES FOR
BUSINESS

Nurulla Fayzullaev, Halimat Tekeeva, Malika Baysaeva

THE COVID-19 PANDEMIC AS A CATALYST FOR THE DEVELOPMENT
OF SUSTAINABLE ENVIRONMENTAL PRACTICES AND THEIR IMPACT
ON QUALITY OF LIFE

*Marziyat Sarbasheva, Islam Eleskhanov, Magomed-Salah Deshiev, Deniel
Bekhoev, Khasan Yandiev*

MONITORING THE STATE OF AGRICULTURAL LANDS IN THE CHECHEN
REPUBLIC USING GIS TECHNOLOGIES

Nurbek Adaev, Aset Amaeva, Malika Israpilova

AN INVESTIGATION OF THE DIGITAL FOOTPRINT OF INDIVIDUALITY IN
RELATION TO ENVIRONMENTALLY RESPONSIBLE BEHAVIOR

Margarita Shapovalova, Elena Serdyukova, Rita Iagodkina

GREEN ECONOMY AND SUSTAINABLE DEVELOPMENT: A NEW
PARADIGM FOR TRADITIONAL BUSINESS MODELS

Anna Breusova

GREEN ECONOMY AND SUSTAINABLE DEVELOPMENT:
TRANSFORMING TRADITIONAL BUSINESS MODELS

Taranova Irina, Uzdenova Fatima

THE ROLE OF ENVIRONMENTALLY ORIENTED START-UPS IN THE
TRANSFORMATION OF TRADITIONAL SECTORS OF THE ECONOMY

Maria Dobrynina, Tatiana Rastimeshina, Alexandra Andreeva

THE ROLE OF LEGAL MECHANISMS IN THE IMPLEMENTATION OF THE
SUSTAINABLE DEVELOPMENT GOALS (SDGS)

Laura Ozdamirova, Marina Dzhamaldinova, Chulpan Samatova

BEHAVIOURAL ECONOMICS AND SUSTAINABILITY: ALIGNING HUMAN
INCENTIVES WITH GREEN GROWTH STRATEGIES

Aliya Gizyatova, Victoria Dlusskaya, Aza Bisultanova

CONTRIBUTION OF REGIONAL INTEGRATION ASSOCIATIONS TO
SUSTAINABLE DEVELOPMENT

Irina Makarova, Dmitry Morkovkin, Kheda Musaeva

ECOLOGICAL MINDSET IN EDUCATION: INTEGRATING SUSTAINABLE
PRACTICES INTO EDUCATIONAL PROGRAMS

Elena Arbuzova, Natalia Alexandrova

TAX REGULATION AND THE TRANSITION TO A GREEN ECONOMY:
INTEGRATING SUSTAINABLE DEVELOPMENT INTO FISCAL POLICY

Elena Perepechkina, Satsita Khasanova, Maryam Ortskhanova

THE EFFECTIVENESS OF CARBON TAXES AND TRADING SCHEMES TO
REDUCE CO₂ EMISSIONS

Irina Taranova, Natalia Nazarova

ECONOMIC MODELS OF TRANSITION TO SUSTAINABLE
DEVELOPMENT: ANALYSIS OF SUCCESSFUL STRATEGIES IN WORLD
PRACTICE

Giao Tran, Alisa Olisaeva, Anna Babich, Halimat Tekeeva, Aminat Musaeva

CONCEPTUAL APPROACHES TO TRANSITION TO "GREEN ECONOMY"
IN THE CONDITIONS OF SUSTAINABLE DEVELOPMENT OF
KAZAKHSTAN

*Zeinegul Yessymkhanova, Angela Mottaeva, Talgat Birmagambetov,
Gaukhar Mombekova, Zina Shaukerova*

DIGITAL TECHNOLOGIES AS A TOOL FOR ECONOMIC STIMULATION
OF SUSTAINABLE CONSUMPTION AND PRODUCTION

*Olga Ermolovskaya, Irina Belikova, Elena Kushch, Olga Grudina, Tatyana
Sitokhova*

ECONOMIC BENEFITS AND RISKS OF TRANSITION TO SUSTAINABLE
DEVELOPMENT IN KEY INDUSTRIAL SECTORS

Irina Podkolzina, Fatima Uzdenova, Marianna Kelekhsaeva, Natalia Lazareva

ENVIRONMENTAL AND NATURAL CHALLENGES FACED BY DEPORTED
PEOPLES IN THEIR NEW PLACES OF RESIDENCE

Sapiyat Tsutsulaeva

GREEN ECONOMY AND SUSTAINABLE DEVELOPMENT:
TRANSFORMING TRADITIONAL BUSINESS MODELS

Vladimir Spilnichenko, Irina Taranova, Fatima Uzdenova, Madina Akoeva

INNOVATIVE TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE IN
REPRODUCTIVE MEDICINE

*Marziyat Sarbasheva, Islam Eleskhanov Magomed-Salah Deshiev, Bekhoev
Deniel, Hasan Yandiev, Islam Akhyadov*

INVESTING IN THE GREEN ECONOMY: AN ANALYSIS OF RISKS AND
OPPORTUNITIES

Viktor Stolyarov, Marina Galazova

METHODS FOR ANALYZING REGIONAL ENTREPRENEURSHIP WHILE
INCORPORATING SUSTAINABLE DEVELOPMENT PRINCIPLES

Igor Botsiev, Emin Magomadov, Zhanna Belotelova

RENEWABLE ENERGY ECONOMY: POTENTIAL AND CHALLENGES

Marat Khadzhiev, Zarina Tarkhanova

THE IMPACT OF DIGITAL TECHNOLOGIES ON SUSTAINABLE
CONSUMPTION AND PRODUCTION

Liliy Semenova, Zarema Khabekirova, Fatima Dzodzikova, Nino Botsieva

SUSTAINABLE CONSUMPTION PATTERNS: THE ROLE OF CONSUMER BEHAVIOR IN A GREEN ECONOMY

Mahomet-Ali Tekeev, Aza Bisultanova, Elena Maria

SUSTAINABLE DEVELOPMENT OF PRIMARY HEALTH CARE SYSTEMS

Marziyat Sarbasheva, Zukhra Makhieva, Aina Maltsagova, Laura Khadzhieva, Magomed Dzhafarov

THE ECONOMICS OF SUSTAINABLE URBAN DEVELOPMENT: HUMAN PARTICIPATION IN CREATING ECO-FRIENDLY CITIES

Giao Tran Xuan, Zulfiya Laipanova, Khadizhat Mamalova

THE EFFECTIVENESS OF CARBON TAXES AND TRADING SCHEMES TO REDUCE CO₂ EMISSIONS

Irina Taranova, Natalia Nazarova Olisaeva Alisa

THE IMPACT OF HUMAN CAPITAL ON ECONOMIC GROWTH IN THE FACE OF GLOBAL CHALLENGES

Olga Morozova, Zarina Aylarova, Malika Baysaeva

REPRODUCTIVE MEDICINE AND REPRODUCTIVE TECHNOLOGIES IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT

Zalina Zalikhanova, Rayana Tsadaeva, Luana Sambikhadzhieva, Sabina Khakulova, Dana Ezdekova

INSTRUMENTS FOR FINANCING ENVIRONMENTAL PROJECTS DURING THE GLOBAL ENERGY TRANSITION

Shakizada Niyazbekova, Amanai Akmatova, Kanzada Karabaeva, Aigul Osmonova, Aigul Mirzaeva

THE ROLE OF THE ENVIRONMENT IN SHAPING THE LIVING CONDITIONS OF DEPORTED PEOPLES DURING AND AFTER THE GREAT PATRIOTIC WAR

Sapiyat Tsutsulaeva

THE «GREEN» ECONOMY: THE SPECIFICS OF FINANCING AND SUBSIDIZING PROJECTS IN MODERN CONDITIONS

Shakizada Niyazbekova, Olga Brizhak, Eleonora Gavrilova, Tatiana Rastimeshina, Maria Dobrynina

THE ROLE OF ECO-TOURISM IN MITIGATING CLIMATE RISKS AND ENHANCING COMPETITIVENESS

Gorbunov Alexander, Tatuev Arsen, Taran Oleg

THE INFLUENCE OF HUMAN FACTORS ON PERCEPTION OF SUSTAINABILITY IN EDUCATIONAL TECHNOLOGIES

Natalya Rakuta, Bakhtiyar Badalov, Aza Bisultanova

ADAPTIVE EDUCATIONAL TECHNOLOGIES FOR THE FORMATION OF ENVIRONMENTAL AWARENESS

Nino Botsieva, Liliy Semenova, Zarema Khabekirova, Fatima Dzodzikova

ON FINANCING GREEN PROJECTS CONTRIBUTING TO THE ACHIEVEMENT OF SUSTAINABLE DEVELOPMENT GOALS

Shakizada Niyazbekova, Magomed Tashtamirov, Vasiliy Varzin, Fusail Boboev, Baldyrgan Jazykbayeva

ENSURING ENVIRONMENTAL SAFETY IN THE FIELD OF EDUCATION IN MODERN CONDITIONS

Svetlana Anzorova, Shakizada Niyazbekova, Elena Torbik, Marina Krupchak, Gulnar Zhumadilova

FORMATION OF APPROACHES TO CLEANING RECLAMATION DRAINAGE CHANNELS FROM SEDIMENTS, SILTATION AND VEGETATION

Serik Toigambaev, Khamzat Abdulmazhidov, Arman Abenov, Shakizada Niyazbekova

DIGITAL TECHNOLOGIES AND THE INTEGRATION OF A GREEN ECONOMY: LEGAL PECULIARITIES AND ELECTRONIC TRANSACTIONS

Ainur Issayeva, Shakizada Niyazbekova, Alexander Semenov, Seyit Kerimkhulle, Meiramkul Sayimova

PROSPECTS FOR THE DEVELOPMENT OF DIGITAL CURRENCY IN THE CONTEXT OF AN INNOVATIVE ECONOMY

Kymbat Kunanbayeva, Marina Gordova, Gayur Sokhibnazarov