

CONFERENCE PROGRAM



NOVEMBER 19

9:00-10:00

REGISTRATION (907)

10:00-12:30

OPENING PLENARY SESSION (907)

12:30-14:00

COFFEE BREAK (900)

14:00-17:00

SECTION SESSIONS (110, 111, 907, 707)

17:00-19:00

WELCOME DINNER (INNOVATION CENTER)

KEYNOTE SPEAKERS:

MÜSLÜM ARICI
KOCAELI UNIVERSITY, TURKEY

TING CHOO YEE
MULTIMEDIA UNIVERSITY, CYBERJAYA, MALAYSIA

NATALIA MAQSIMCHOOK
PRIVATE COMPANY KENES SERVICE K

ALI ABD ALMISREB
INTERNATIONAL UNIVERSITY OF
SARAJEVO, BOSNIA AND HERZEGOVINA

NOVEMBER 20

9:00-10:00

REGISTRATION (907)

10:00-11:30

OPENING PLENARY SESSION (907)

11:30-12:30

COFFEE BREAK (900)

14:00-17:00

SECTION SESSIONS (110, 111, 907)

KEYNOTE SPEAKERS:

LUCIO TOMMASO DE PAOLIS
UNIVERSITY OF SALENTO, ITALY

IVANOV VITALII
TECHNICAL UNIVERSITY OF KOŠICE, SLOVAK
REPUBLIC

AIGERIM AITIM
INTERNATIONAL INFORMATION TECHNOLOGY
UNIVERSITY, KAZAKHSTAN

JEDRZEJ ANTONI SKRZYPCZAK
ADAM MICKIEWICZ UNIVERSITY, POLAND

Wednesday, November 19, Plenary Session

Chairman: Madina Ipalakova

10.00 – 12.00, Room 907

Zoom conference link:

<https://us06web.zoom.us/j/88597530776?pwd=SeepGYH35n7a3S7syMTdMbBwkX2N8k.1>

Conference ID: 885 9753 0776

Access code: 520257

Welcoming speech: Kateryna Kolesnikova, Acting Chairman of the Board – Rector of the International Information Technology University

Welcoming speech: Diyar Askarov, LLP "Almaty Tourism Bureau"

Keynote Speaker: Prof. Müslüm Arıcı, Kocaeli University, Turkey

Digital Transformation for Energy-Efficient and Smart Buildings

Keynote Speaker: Prof. Ting Choo Yee, Multimedia University, Cyberjaya, Malaysia

From Insight to Impact: How LLM Redefines Decision Intelligence

Keynote Speaker: Natalia Maqsimchuk, Private company Kenes Service K

Talent Without Boundaries: Women in IT as a Strategic Resource for the Country's Sustainable Development

Keynote Speaker: Prof. Ali Abd Almisreb, International University of Sarajevo, Bosnia and Herzegovina

Quantum Computing Journey: from Qubit to Quantum Algorithms and its Applications

Wednesday, November 19, Workshop on Software and Knowledge Engineering

Chairman: Serik Joldasbayev, **Secretary:** Ayaulym Kami

14.00 – 17.00, Room 907

Zoom conference link

<https://us06web.zoom.us/j/88449329307?pwd=5mH08eCoJzQYp5q1C97vBxZKMFTDN.1>

Conference ID: 884 4932 9307

Access code: 553157

10	Sergiy Bushuyev and Oleksii Vedmiediev	Business Process Models for Value-Oriented Strategic Communications of a Construction Project with Key Stakeholders	Kyiv National University of Construction and Architecture
12	A .O. Biloshchytskyi, Iu. A. Chupryna, R. Yu. Tormosov, M. A. Fedorchenko	Applied Modules of System Performance of Changes in the Operational System of Construction Enterprises	Astana IT University Kyiv National University of Construction and Architecture
14	Jan-Peter Mund, Victoriia Khrutba, Sergiy Rudenko, Tetiana Kovtun and Yuliia Nikitchenko	A Comprehensive Model for Evaluating the Quality of Digital Teaching and Learning in Ukrainian Universities	Eberswalde University for Sustainable Development National Transport University Odesa National Maritime University
25	Elena Gorda, Anatolii Serdiuk and Yuliia Riabchun	Local Positioning of the Particle Swarm	Kyiv National University of Construction and Architecture Warsaw University of Technology
33	Alexandra Li, Gulmira Shakhmetova, Aidiye Aidarbekov and Ha Jin Hwang	Bias in AI Algorithms vs. Bias in Humans: Which Recruitment Approach is Fairer for the Labor Market in Kazakhstan?	Astana IT University Eurasian National University Kazakh AgroTechnical Research University
36	Raissa Uskenbayeva, Zhuldyz Kalpeyeva, Aizhan Kassymova, Serik Zhardanbek and Aizhan Anartayeva	Architecture of an Event-Driven Serverless Digital Service for Citizen Participation in Decision-Making	Satbayev University LLC «FAM Group» Astana IT University
39	Viktor Morozov and Vladyslav Deineha	Development of a Hybrid Metaheuristic-Based Dual Ascent Method for Reliability Optimization of IT Systems	Taras Shevchenko National University of Kyiv

65	Olena Horda and Yevhenii Honcharenko	Model of the Document of the Educational Business Process of a Higher Education Institution	Kyiv National University of Construction and Architecture
71	Botagoz Tokanova, Diana Yermekova, Artem Bykov and Zhansaya Bekaulova	Automation of Interdisciplinary Connections Detection in Higher Education through Information Technologies	International Information Technology University
73	Dias Rustembek, Gulmira Shakhmetova, Aidiye Aidarbekov and Medet Mukushev	Creating Optimized 3D Models for Video Games as a Contribution to Sustainable Development	Astana IT University Eurasian National University Maqsut Narikbayev University Kazakh AgroTechnical Research University
78	Aruzhan Auyez, Riza Akhitova, Aidiye Aidarbekov and Ha Jing Hwang	Understanding Children's Mental Models of Digital Money: A Participatory Design Approach	Astana IT University
83	Tetiana Fesenko, Galyna Fesenko and Hryhorii Fesenko	Agile Methodology in Construction Project Management: an Information Framework for Establishing PMO	Kharkiv National University of Radio Electronics O. M. Beketov National University of Urban Economy in Kharkiv Volodymyr Dahl East Ukrainian National University
104	Oryngul Sadykanova, Saule Smailova and Saule Kumargazhanova	The Use of Intelligent Algorithms to Adapt Learning	D. Serikbayev East Kazakhstan Technical University NIS Oskemen
115	Beket Muratbekuly and Sakhybay Tynymbayev	Research in Structure from Motion and Multi-View Stereo Techniques in Photogrammetric 3D Reconstruction from 2D Image Sequences	International Information Technology University
121	Maksym Ostapenko, Evgeniy Lavrov, Kateryna Kolesnikova, Artem Bykov and Vladyslav Pliuhin	A Decision-Making Methodology for UI/UX Redesign Strategy Selection and Management in Fast-Evolving Product Environments	Sumy State University International Information Technology University O.M. Beketov National University of Urban Economy in Kharkiv

Wednesday, November 19, Workshop on Cybersecurity, Infocommunication Systems and Networks

Chairman: Galym Alin, **Secretary:** Galym Kapyshev

14.00 – 17.00, Room 707

Zoom conference link

<https://us06web.zoom.us/j/82652506096?pwd=I0lp5QA3vRg7zgwbBj1ldE9bot7o0a.1>

Conference ID: 826 5250 6096

Access code: 183006

5	Tatiana Babenko, Kateryna Kolesnikova, Dameliya Eskendirova, Yelena Bakhtiyarova, Meruyet Dauletbek and Oleksandr Kruchinin	An OSINT-Driven Architecture for Digital Asset Discovery and Risk Evaluation	International Information Technology University National Technical University "DniproPolytechnic"
89	Aigul Nurlankyzy and Aigul Kulakayeva	Comparative Analysis of CNN-BiGRU and CNN-BiLSTM Architectures for Voice Activity Detection under Low Signal-to-Noise Ratio Conditions	Satbayev University International Information Technology University
6	Mohamed Ahmed, Saule Amanzholova, Ali Abd Almisreb, Khalifa Chekima, Ashraf O. Ibrahim and Murizah Kassim	Advancements in Quantum Computing: Challenges and Future Directions for Cryptography	Universiti Malaysia Sabah Astana IT University International Information Technology University Universiti Teknologi PETRONAS Universiti Teknologi MARA
9	Rostyslav Lisnevskiy, Saule Amanzholova, Jamilya Akhmetzhanova, Aidana Ikembayeva and Darya Naumova	Development of an Integrated Network Threat Detection System Based on Wazuh, Suricata and Telegram Bot	International Information Technology University Astana IT University
15	Mamyrbek Bisenbi, Orisbay Abdiramanov, Saltanat Beisenbina, Islam Omirzak and Aigerim Alibek	A Self-Organizing Control System for Deterministic Chaotic Modes of a Nonlinear Spacecraft in the Class of Two-Parameter Structurally Stable Maps	L.N. Gumilyov Eurasian National University Nazarbayev University Astana IT University
38	Azamat Baibussinov, Gulnara Abitova and Kaisarbek Yesbergenov	An Integrated Decision-Tree Framework for UAV Forensic Data Recovery: Bridging Hardware Chip-Off and Logical Analysis Methods	National Defense University of the Republic of Kazakhstan Astana IT University

48	Rostyslav Lisnevskyi, Mirzhakup Madi, Svitlana Biloshchytska, Mykola Kostikov and Vitalii Lisnevskyi	Project Management for Open Port Analysis and Attack Detection Using Zeek	Astana IT University International Information Technology University Taras Shevchenko National University of Kyiv National University of Food Technologies
54	Malika Sagitzhanova, Kanibek Sansyzbay, Yelena Bakhtiyarova and Teodor Iliev	Application of Deep Learning Methods to Ensure the Information Security of the MSAB Digital System in the Railway Transport of the Republic of Kazakhstan	M. Tynyshbayev ALT University International Information Technologies University University of Ruse
56	Anuar Askarov, Samat Mukhanov, Saule Amanzholova, Dauren Sagidullauly and Kymbat Seilkhanova	Hybrid Capture the Flag Platform for Cybersecurity Education	Astana IT University
58	Dinara Akbergen, Aidiye Aidarbekov and Ha Jin Hwang	Algorithmic Curation, Information Security, and Public Trust on Social Platforms: Case Studies of TikTok and YouTube	Astana IT University Maqsut Narikbayev University
76	Aigerim Alibek, Orisbay Abdiramanov, Saule Amanzholova and Mamyrbek Bisenbi	Next-Generation Debugger Detection: An AI-Based Approach	Astana IT University L.N. Gumilyov Eurasian National University
84	Evgeniy Lavrov, Olga Siryk, Artem Bykov, Maksym Ostapenko and Vladyslav Pliuhin	Methodology for Dialogue Management in Human-Machine Systems under the Risks	Sumy State University International Information Technology University Taras Shevchenko National University of Kyiv O.M. Beketov National University of Urban Economy in Kharkiv
94	Saken Mambetov, Serik Joldasbayev, Artem Bykov and Sungat Koishybay	Methods for Automatic Emotion Recognition in Hacker Forum Texts	Turan University International Information Technology University Al Farabi Kazakh National University

Thursday, November 19, Workshop on Data Science and Artificial Intelligence (session 1)

Chairman: Marat Nurtas, **Secretary:** Ainur Srazh

14.00 – 17.00, Room 107

Zoom conference link

<https://us06web.zoom.us/j/88640545959>

Conference ID: 886 4054 5959

11	Anar Amangozhayeva, Yerkezhan Amangozhayeva and Aigerim Seitnur	Governing AI in Higher Education: Kazakhstan's Path from Constraints to Integration	Turan University International Information Technology University
20	Bekzat Kobei, Nurgul Seilova and Zarina Kashaganova	Deep Reinforcement Learning for Cost-Efficient Resource Management in Hybrid Cloud Environments	International Information Technology University
23	Dinmukhammed Orkushpayev, Saya Sapakova, Zhansaya Bekaulova, Aknur Yemberdiyeva and Aigul Agybayeva	Data-Driven Optimization of YOLOv8n for Drone Search Missions	International Information Technology University Communal State Institution "Abai Village Secondary School"
27	Roman Kulyk and Viktor Morozov	Hybrid AI Models for Forecasting Nonlinear Environmental Impacts in Fixed-Budget IT Projects	Taras Shevchenko National University of Kyiv
30	Altynay Zhumakhanova, Gulmira Shakmetova, Ha Jin Hwang and Aidiye Aidarbekov	Artificial Intelligence for Sustainable Innovation in Visual Media: Modernizing Graphic Design Workflows in Line with SDG 9	Astana IT University L.N. Gumilyov Eurasian National University Maqsut Narikbayev University
32	Aigerim Kereibayeva, Fariza Abdraimova, Tolkyn Toktarova, Dinara Dyussenova and Dana Tsoy	AI Technologies in Language Education: Practical Aspects and Challenges of Student Usage	International Information Technology University

41	Gulnara Bektemyssova, Ulzhan Kokenova and Symbat Mamanova	Optimizing Urban Evacuation: AI-Driven Analysis of Transportation Bottlenecks in Almaty	International Information Technology University
47	Marat Nurtas, Aizhan Ydyrys and Zhanibek Ydyrys	Physics-Informed Neural Networks for One-Dimensional Heat Transfer in Climate Models	International Information Technology University Institute of Ionosphere
51	Oleksii Matsiievskiy, Ihor Bosenko, Igor Achkasov and Illia Sachenko	Prosody-Aware Dual-Stream Neural Model for Speaker-Adaptive Voice Command Recognition	Kyiv National University of Construction and Architecture
59	Dinara Zhussupova, Zamira Abdikalikova and Marat Nurtas	Intelligent Control of Fluid Transport on Mobile Rovers to Minimize Spillage	Institute of Mathematics and Mathematical Modeling International Information Technology University
69	Zhanerke Temirbekova, Zhansaya Bekaulova, Sakhybay Tynymbayev and Rashidam Mametova	The Heart Disease Prediction Using Machine Learning Algorithms	International Information Technology University
75	Samat Mukhanov, Kaisar Bekbolat, Ikram Bazarbekov, Saule Amanzholova, Kymbat Seilkhanova and Galym Kapyshev	Comparison of Neural Network Models for Prediction Cryptocurrency Price Volatility in Trading Pairs	Astana IT University International Information Technology University

Thursday, November 19, Workshop on Data Science and Artificial Intelligence (session 2)

Chairman: Azhar Tursynova, **Secretary:** Zeinel Momynkulov

14.00 – 17.00, Room 111

Zoom conference link

<https://us06web.zoom.us/j/87541211634>

Conference ID: 875 4121 1634

3	Aigerim Aitim and Anel Auyezova	Semantic Search and Eligibility Assessment over NP-Complete Legal Tasks	International Information Technology University
8	Arman Nurgalykov, Saya Sapakova, Dastan Zhalmukhanbetov, Gani Nurgazy and Amirzhan Myrzabayev	Language Asymmetry in LLMs: The Impact of Non-English Data on Accuracy and Reliability	International Information Technology University
24	Aigerim Aitim and Anel Auyezova	Encoding NP-Complete Problem Instances into Natural Language for LLM Processing	International Information Technology University
28	Symbat Nurgaliyeva, Zhandos Seitkaliyev, Aivar Sakhipov, Marzhan Kali and Roman Hrmo	Comparative Analysis of Machine Learning Models for Yield Forecasting on Large-Scale Agroclimatic Data	Astana IT University Dubnica Institute of Technology in Dubnica nad Vahom
29	Symbat Nurgaliyeva, Nurbek Naiman, Kuralay Makhmetova Marzhan Kali and Hrmo Roman	Comparative Analysis of Machine Learning Methods for Rapid Detection of Vegetable Disease using Computer Vision	Astana IT University Dubnica Institute of Technology in Dubnica nad Vahom
34	Aivar Sakhipov, Ramazan Seiitbek and Didar Yedilkhan	Real-Time Passenger Flow Prediction Using Automated Data Preparation	Astana IT University

40	Farkhat Myrzabekov, Mustafin Nurzhan and Medet Mukushev	"Why is this News Negative?": An Attention-Based Visualization Technique for Explainable Sentiment Analysis: An Analytical Survey and Conceptual Framework	Astana IT University
45	Gehad M. Hamada and Mohamed A. Hamada	Leveraging Machine Learning Models to Boost the Manipulation of Unstructured Decisions and Unstructured Data in Digital Business Firms	International Information Technology University
49	Aliya Kalykulova, Kuanysh Bakirov, Aruzhan Shoman and Aliya Nugumanova	Formation of a Unified Data Set for Analyzing the Relationship Between Dog Breeds and Diseases	Astana IT University
52	Anel Auyezova, Aigerim Aitim, Tolkynai Sadykova, Bakhtgeray Sinchev and Waldemar Wójcik	NP-Complete Algorithms in LegalTech: Hybrid Architecture for Semantic Retrieval in Kazakhstan's Legal Acts	International Information Technology University Lublin University of Technology
55	Yaroslav Hozak, Sergiy Paliy and Tetyana Honcharenko	Evaluating Optimal Configurations of Shallow CNNs on Low-Complexity Datasets	Taras Shevchenko National University of Kyiv Kyiv National University of Construction and Architecture
57	Aiym Yerzhan, Askar Murat and Ha Jin Hwang	How Neural Networks are Driving a Future of Responsible Digital Media	Astana IT University

Thursday, November 20, Plenary Session

Chairman: Madina Ipalakova

10.00 – 12.00, Room 907

Zoom conference link

<https://us06web.zoom.us/j/87611219360?pwd=nk3hdyJPAbkVK1i2ioJ3jTrex3BtOv.1>

Conference ID: 876 1121 9360

Access code: 730165

Keynote Speaker: Prof. Lucio Tommaso De Paolis, University of Salento, Italy	<i>Extended Reality and Artificial Intelligence: Innovations for Medicine and Wellbeing</i>
Keynote Speaker: Prof. Vitalii Ivanov, Technical University of Košice, Slovak Republic	<i>Emerging Technologies in Manufacturing</i>
Keynote Speaker: Dr. Aigerim Aitim, International Information Technology University	<i>Building NLP Ecosystems for Low-Resource Languages: The Kazakh Case</i>
Keynote Speaker: Prof. Jędrzej Antoni Skrzypczak, Adam Mickiewicz University, Poland	<i>AI, Regulation, and Human Rights Challenges</i>

Wednesday, November 20, Workshop on Smart Technologies and IoT

Chairman: Aadm Ziro **Secretary:** Xeniya Semko

14.00 – 17.00, Room 907

Zoom conference link

<https://us06web.zoom.us/j/82136131694?pwd=hLnJFRqbweDuwsGiNjtsbH5Vr28Orw.1>

Conference ID: 821 3613 1694

Access code: 648900

1	Aigul Beisenbayeva, Suleimen Kaimov, Talgat Kaiym, Zhansaya Bekaulova and Nurzhan Duzbayev	Pedagogical Conditions for Training Future Specialists to Use aviation Profiling in Professional Activities	Civil Aviation Academy International Information Technology University
2	Aissulu Kaldarova, Marco Vasquez, Nazym Baisbay, Saule Amanzholova and Madina Rakhimzhanova	Improving Business English Writing Skills with Miro: A Smart Technology Approach in the IoT Era	International Information Technology University Astana IT University
7	Aissulu Kaldarova, Marco Vasquez, Nazym B. Baisbay, Saule Amanzholova and Anunciacion Tala Atos	Enhancing Student Performance through MOOCs: An Analysis of the Impact of Massive Open Online Courses on Academic Achievement	International Information Technology University Astana IT University Miras International School
21	Serhii Chernov, Serhii Titov, Liubava Chernova, Kateryna Kolesnikova, Lyudmila Chernova and Eugeniy Trushliavov	Reduction of Dynamic Problems in Game Theory: Applications for IT Project Management	Admiral Makarov National University of Shipbuilding International Information Technology University
22	Liubava Chernova, Iryna Zhuravel, Serhii Chernov, Kateryna Kolesnikova, Lyudmila Chernova and Valerii Komysnyk	Cognitive Approach to IT Project Management: The Impact of Cognitive Biases on Decision-Making	Admiral Makarov National University of Shipbuilding International Information Technology University
16	Saya Sapakova, Daniyar Kyzyrov, Askar Sapakov, Aigul Agybayeva and Gaini Tleuova	Research on Energy-Efficient Swarm Drone Control	International Information Technology University M. Tynyshpaev ALT University JSC Abai Village Secondary School
19	Regina Sharshova, Aigerim Kereibayeva, Madina Rakhimzhanova, Dana Tsoy and Zhannura Manapbayeva	Evaluating the Lasting Impact of Immersive VR Simulations in Enhancing Language Learning Results	International Information Technology University

35	Zhansaya Bekaulova, Nurzhan Duzbayev, Gulnar Mamatova, Mukhamed Bersugir and Kaldybek Amir	Adaptive Learning Gamification: A Scientific Investigation of Mathematical Frameworks and Algorithmic Strategies	International Information Technology University Abai Kazakh National Pedagogical University
47	Yuliia Riabchun, Tamara Koreniuk, Roman Mazurenko, Elena Dolya and Oleksii Kotliarevskiy	Autonomous UAV Navigation in Post-Disaster Environments Using ORB-SLAM	Kyiv National University of Construction and Architecture
60	Aigul Niyazgulova, Nurzhan Duzbayev, Saule Ashenova, Shynar Kaliashdarova and William Adeleke	The Influence of Digitalization on the Evolving Digital Audience and Emerging Media Threats	International Information Technology University
62	Nurzhan Duzbayev, Zhandaulet Musilimov, Lyudmila Kozina, Madi Mashrapov and Manat Tuyenbayev	Analysis of Facial Regions for Precise Measurement of Oxygen Saturation and Heart Rate	International Information Technology University
74	Suleimen Kaimov, Talgat Kaiym, Abylay Kaimov, Aidarkhan Kaimov, Nurzhan Duzbayev, Balzhan Akhmetova and Zhansaya Bekaulova	Justification of a Software-Integrated System of Technical Devices for Dust and Gas Mixture Removal from the Chimney of a Coal-Fired Thermal Power Plant	International Information Technology University Institute of Mechanics and Engineering named after U. A. Joldasbekov Al Farabi Kazakh National University
77	Andrii Biloshchytskyi, Ilyas Kazambayev, Alexandr Neftissov, Aliya Aubakirova and Magzhan Amangeldi	Methods and Models for Developing Smart Environmental Monitoring Systems Using Machine Learning and Statistical Approaches	Astana IT University Kyiv National University of Construction and Architecture Academy of Physical Education and Mass Sports
88	Nurkamiliya Daurenbayeva, Symbat Mamanova, Artem Bykov, Akbota Akim and Bagdat Yagaliyeva	Machine Learning Based Predictive Fault Detection in Microclimate Systems	International Information Technology University Satbayev University
102	Aslanbek Aitbayev, Zhansaya Bekaulova, Nurzhan Duzbayev, Makpal Iskakova and Rashidam Mametova	Simplified Device Integration in IoT: Approaches to Unified Orchestration	International Information Technology University Abai Kazakh National Pedagogical University
122	Angsar Shaumen, Amandyk Baktybauly, Ruslan Omirgaliyev and Nurkhat Zhakiyev	Development of a Decentralized Platform for Managing and Verifying Educational Achievements	Astana IT University

Thursday, November 20, Workshop on Data Science and Artificial Intelligence (session 1)

Chairman: Marat Nurtas, **Secretary:** Ainur Srazh

14.00 – 17.00, Room 107

Zoom conference link

<https://us06web.zoom.us/j/89755160666?pwd=GC6KBnqTbI2aNGblEaapDIYYLsoCJx.1>

Conference ID: 897 5516 0666

Access code: 413187

79	Nesar Ahmad Bahin, Rahim Ahmed Druba, Gulzat Turken and Vladislav Karyukin	Improving Driver Safety and Trip Quality Through Real-Time Anomaly Detection with Multi-Model Learning in Taxi Services	Al-Farabi Kazakh National University
85	Daniyar Rakhimzhanov, Aigerim Mansurova and Didar Yedilkhan	Developing Multidimensional and Geospatial Classification Models for Passenger Complaints on Smart City Platforms	Astana IT University
91	Temirlan Ramazan, Ha Jin Hwang, Askar Murat and Aidiye Aidarbekov	AI Innovation vs. Disinformation: The Dual Role of Deepfake Technology	Astana IT University Kazakh AgroTecnical Research University Maqsut Narikbayev University
92	Symbat Nurgaliyeva, Sanzhar Kuandyk, Zhuldyz Basheyeva, Maxot Rakhmetov and Hrmo Roman	Integrating Symbolic Execution and Machine Learning for Automated Test Generation in System-Level Programming Languages Vision	Astana IT University Kh.Dosmukhamedov Atyrau University Dubnica Institute of Technology in Dubnica nad Vahom
99	Zhuldyz Basheyeva, Arlan Manap, Nurzhamal Kashkimbayeva and Nurkhat Zhakiyev	Artificial Intelligence and Remote Sensing for Deforestation Monitoring: a Comprehensive Review	Astana IT University
101	Marat Nurtas and Merey Kenzhebayaeva	Physics-Informed Neural Networks for Solving Inverse Gravimetry Problem	International Information Technology University Al-Farabi Kazakh National University Joldasbekov Institute of Mechanics and Engineering

103	Petr Tsekoyev, Talgat Sembayev and Zhanat Nurbekova	How Can Machine Learning Personalize Educational Content Generated by LLMs	Astana IT University Abai Kazakh National Pedagogical University
106	Ruslan Krasnozhonov, Marat Nurtas, Zhazira Kadirbayeva and Galym Kapyshev	Collocation Point Strategies in Physics-Informed Neural Networks: A Comparative Study on the Burgers' Equation	International Information Technology University Al-Farabi Kazakh National University Kazakh National Women's Teacher Training University
107	Marat Nurtas, Aidana Mergembayeva, Aizhan Ydyrys and Ruslan Krasnozhonov	A Comparative Analysis of Machine Learning Algorithms for Sentinel-2 Based Mineral Prospectivity Mapping	Institute of Ionosphere International Information Technology University
109	Vyacheslav Pak, Riza Akhitova, Ha Jin Hwang, Aidiye Aidarbekov and Darkhan Bekuzak	Integrating Explainable AI for Trustworthy Machine Learning-Based Ad Personalization in Social Media Platforms	Astana IT University S. Seifullin Kazakh Agrotechnical Research University Kangwon National University
113	Ainur Srazh, Aizhan Altaibek, Marat Nurtas, Jandos Amankulov, Lashyn Adiat and Kassiyet Akimtay	Deep Learning and Dimensionality Reduction Using PCA and LDA for Cervical Cancer Diagnosis	International Information Technology University Al Farabi Kazakh National University Kazakh Institute of Oncology and Radiology
120	Akkyz Mustafina, Artem Bykov, Syrym Zhakypbekov, Saken Mambetov and Serik Joldasbayev	AI in Kazakhstan Education System	International Information Technology University Turan University

Thursday, November 20, Workshop on Data Science and Artificial Intelligence (session 2)

Chairman: Azhar Tursynova, **Secretary:** Zeinel Momynkulov

14.00 – 17.00, Room 111

Zoom conference link

<https://us06web.zoom.us/j/85181994209>

Conference ID: 851 8199 4209

63	Lyazat Naizabayeva, Gulzat Turken, Rahim Ahmed Druba and Ahmad Shah Yawar	Leveraging Enterprise Data Warehousing to Improve Web-Based Sales Operations	International Information Technology University Al-Farabi Kazakh National University
66	Dina Kantayeva, Arailym Seisenbekkyzy and Svitlana Biloshchytska	Comparative Evaluation Model Based on Expert Systems for Abstractive Summarization of Scientific Texts	Astana IT University
67	Lyazat Naizabayeva, Gulzat Turken and Rahim Ahmed Druba	Effective Method for Optimal Clustering in Unsupervised Learning	International Information Technology University Al-Farabi Kazakh National University
70	Kuanysh Tokayev and Aiman Moldagulova	A Review of Predictive Models Approaches to Stock Market Forecasting in Kazakhstan	Satbayev University
80	Nikita Mordvintsev, Zhanar Oralbekova and Aigerim Bakiyeva	Deep Learning-Based Vehicle Make and Model Recognition: Dataset Challenges and Influencing Factors in Urban Traffic	Astana IT University
82	Oleksii Yehorov, Anatolii Pashko, Bohdan Yeremenko, Svitlana Terenchuk and Oleksii Komandyrov	Assessment of the Technical Condition of Real Estate Objects Using Gradient Boosted Decision Trees with Clustering	Taras Shevchenko National University of Kyiv Kyiv National University of Construction and Architecture Kyiv Scientific Research Institute of Forensic Expertise

96	Maxat Kabdullin, Abylai Kairbekov, Azat Kabdullin, Lyazat Naizabayeva and Anar Mukhit	Design and Implementation of a Web-Based Prototype for Cardiological Image Management	Satbayev University International Information Technology University Kazakhstan's Medical University "KSPH"
97	Zhuldyz Basheyeva, Aruna Dikanova, Symbat Nurgaliyeva and Nurkhat Zhakiyev	Predictive and Recommender Models for Educational Trajectories in Higher Education	Astana IT University
98	Zeinel Momynkulov and Bauyrzhan Omarov	DDPG for Trajectory Generation	International Information Technology University Al-Farabi Kazakh National University
114	Galym Kapyshev and Marat Nurtas	A Methodological Framework for the Preprocessing and Integration of Geospatial and Geophysical Data for Mineral Prospectivity Prediction Using Machine Learning	Institute of Ionosphere International Information Technology University
118	Azhar Tursynova and Bauyrzhan Omarov	Evolution of the Effectiveness of Conditional GAN for the Synthesis of CT Images of the Brain in the Diagnosis of Stroke	Al-Farabi Kazakh National University International Information Technology University
119	Azhar Tursynova and Bauyrzhan Omarov	Effectiveness of Classification of Computed Tomograms of the Brain in the Diagnosis of Stroke Using YOLOv8n-cls, Isotonic Calibration and Double Threshold	Al-Farabi Kazakh National University International Information Technology University