
ASTANA IT UNIVERSITY
INTERNATIONAL IITU UNIVERSITY
NNEF PUBLIC FOUNDATION
NURSULTAN NAZARBAEV QORY
IEEE
IEEE KAZAKHSTAN SUBSECTION
IEEE UKRAINE SECTION
Ministry of Digital Development, Innovations and Aerospace Industry of the Republic of Kazakhstan
Ministry of Science and Higher Education of the Republic of Kazakhstan
НАЦИОНАЛЬНАЯ АКАДЕМИЯ НАУК
IEEE SIST
2025
2025 IEEE 5th International Conference on Smart Information Systems and Technologies
14-16 MAY 2025
Astana, Kazakhstan
CONFERENCE PROGRAM
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2025 IEEE 5th International Conference on Smart Information Systems and Technologies (SIST)

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2025 IEEE 5th International Conference on Smart Information Systems and Technologies (SIST)
14-16 May 2025 Astana, Kazakhstan
CONFERENCE PROGRAM

Time	Event	Venue, participants
14 May (Wednesday)		
09:00 – 09:30	Participants registration	offline – online
09:30 – 10:00	Coffee break	Near the Assembly Hall
10:00 –13:00	Official opening, Plenary session	offline – online Assembly Hall Conference participants
13:00 – 14:00	Lunch	
14:00 – 14:30	Excursion at Astana IT University	
14:30– 16:00	Section presentations	Laboratories of vendors Conference participants
16:00 – 16:20	Coffee break	Near the Assembly Hall
16:20 - 18:00	Section presentations	Laboratories of vendors Conference participants
19:00	Dinner	
15 May (Thursday)		
09:00 – 09:30	Participants registration	offline – online
09:30 – 10:00	Coffee break	Near the Assembly Hall
10:00 – 13:00	Plenary session	offline – online Assembly Hall Conference participants
13:00 – 14:30	Lunch	
14:30 – 16:00	Section presentations	Laboratories of vendors Conference participants
16:00 – 16:20	Coffee break	Near the Assembly Hall
16:20 – 18:00	Section presentations	Laboratories of vendors Conference participants
19:00	Culture program	
16 May (Friday)		
09:30 – 10:00	Coffee break	Near the Assembly Hall
10:00 – 13:00	Section presentations	Laboratories of vendors Conference participants
13:00 – 14:30	Lunch	
14:30 – 16:00	Section presentations	Laboratories of vendors Conference participants
16:00 – 16:20	Coffee break	Near the Assembly Hall
16:20 – 18:00	Section presentations	Laboratories of vendors Conference participants
18:00	Plenary session: conference results. Conference closing	offline – online Assembly Hall Conference participants
19:00	City tour (optional)	

PLENARY SESSION

14 May 2025 (Wednesday) (Time zone UTC+5 Astana time)

Venue: Assembly Hall, Astana IT University

Online: Zoom session

https://us06web.zoom.us/j/86361792947?pwd=YBnBdf59S4wX6s5x2kupnMktOhTatU.1

09:00	**Participants registration**
09:30	**Welcome coffee**
10:00	Greetings ***Askar Khikmetov,*** *Candidate of Physical and Mathematical Sciences, Chairman of the Management Board – Rector of Astana IT University (Astana, Kazakhstan)* ***Ministry of Science and Higher Education of the Republic of Kazakhstan*** ***Ministry of Dijital Development, Innovations and Aerospace Industry of the Republic of Kazakhstan*** ***Michael G. Hinchey,*** *PhD, Professor, IEEE Region 8 Director, Lero, the Science Foundation Ireland Research Centre for Software University of Limerick (Limerick, Ireland)* ***Andrejs Romanovs****, Dr.sc.ing., MBA, Associate Professor at the Riga Technical University (Riga, Latvia), IEEE Region 8 Vitality Coordinator*
10:30-13:00	**Plenary session**
10:30	***Raffaele Sarnataro,*** *PhD, Department of Physiology, Anatomy and Genetics, the Division of Medical Sciences at the University of Oxford, Oxford, (UK)* ***«Bioinformatic analyses of single-cell transcriptomes unveil mitochondrial origins of the pressure to sleep»***
10:50	***Nabil Abdennadher****, full professor University of Applied Sciences and Arts, Western Switzerland (HES-SO), (Geneva, Switzerland)* ***«A ML-based edge-to-cloud platform for digital energy services»***
11:10	***Artūras Mickus****, Doctor of Sciences, Associate Professor Faculty of Informatics Vytautas Magnus University KAUNAS (Kaunas, Lithuania)* ***«Applications of AI in practice: How University can Support Industry»***
11:30	***Joanna Paliszkiewicz****, Professor at the Warsaw University of Life Sciences - Associate Editor, Intelligent Systems with Applications, Associate Editor Journal of Computer Information Systems, (Warsaw, Poland)* ***«Artificial Intelligence in Education and Research – Transforming Teaching, Learning, and Research Practices»***
11:50 (online)	***Sergiy Bushuyev,*** *Doctor of Technical Sciences, Professor, Head of the Department of Project Management, Kyiv National University of Construction and Architecture (Kyiv, Ukraine)* ***«Thinking mechanisms in multimodal AI models based on the TRIZ principles»***
12:10	***Elhadj Benkhelifa****, PhD, Professor, Staffordshire University (UK)* ***«Rethinking Cybersecurity: From Illusions of Control to Resilience by Design»***
12:30	***Stephen Hall,*** *PhD Candidate, Middlesex University London (UK)* ***«Cloistered Knowledge Capture and Retrieval: A Practical Case for Generative Transformers, Large Language Models and Vector Databases in the Business Enterprise»***
12:50	***Azamat Yeshmukhametov,*** *PhD, Postdoctoral Scholar at Nazarbayev University's Department of Robotics Engineering; Head of Advanced Robotics and Mechatronics laboratory Institute of Smart Systems and Artificial Intelligence (ISSAI) at the Nazarbayev University, (Astana, Kazakhstan)* ***«AI in robotics and Sensors»***
13:00	**Lunch**
14:00	**Excursion at Astana IT University**
14:30-16:00	**Section presentations**
16:00-16:20	**Coffee break**
16:20-18:00	**Section presentations**
19:00	**Dinner**

PLENARY SESSION

15 May 2025 (Thursday) (Time zone UTC+5 Astana time)

Venue: Assembly Hall, Astana IT University

Online: Zoom session

https://us06web.zoom.us/j/84268862579?pwd=DeMH2nysLT4Z9T6OaPSKSF4lvCbfwb.1

09:00	**Participants registration**
09:30	**Welcome coffee**
10:00	**Greetings** ***Andrii Biloshchytskyi**, Professor, Vice-Rector for Science and Innovation Astana IT University (Astana, Kazakhstan)* ***Carlo Molardi**, PhD, Assistant Professor in the Electrical and Computer Engineering Department at Nazarbayev University, IEEE Kazakhstan Subsection Chair (Astana, Kazakhstan)*
10:00-13:00	**Plenary session**
10:10	***Thomas A. Weber**, Prof. Dr., Ecole Polytechnique Federale De Lausanne (Lausanne, Switzerland)* ***«Data-Driven Markovian Project Portfolio Tracking»***
10:25	***Michele Brun,** Full Professor University of Cagliari (Cagliari, Sardinia, Italy)* *«Edge Resonances in a triangular lattice waveguide»*
10:45	***Sergiy Gnatyuk**, Professor, Vice-Rector for Research and Technology Transfer, State University «Kyiv Aviation Institute», President of Scientific Cybersecurity Association of Ukraine Kyiv, (Kyiv, Ukraine)* ***«Adaptive cybersecurity system based on AI/ML algorithms and quantum-safe cryptography»***
11:05	***Narendra Khatri**, Dr., Assistant Professor Department of Mechatronics Manipal Institute of Technology (Manipal, India)* ***«AI-Driven Precision Agriculture: Integrating ANN, CNN, and DNN with IoT, Drones, and AGVs for Sustainable and Resilient Farming»***
11:20	***Bohdan Haidabrus**, Associate Professor, IPMA, Riga Technical University (Riga, Latvia)* ***«Agentic AI for Project and Delivery Management in Agile Environment»***
11:40	***Murat Ozer**, Professor University of Cincinnati (Cincinnati, Ohio, United States)* ***«Intelligent Systems for Public Safety – Bridging AI and Justice»***
12:00	***Maksim Iavich,** Professor at Caucasus University, director at Cyber Security Centre. President at Scientific Cyber Security Association (Tbilisi, Georgia)* ***«The novel method of optimizing post-quantum digital signatures»***
12:20	***Korhan Kayışlı**, PhD, Associate Professor, Gazi University (Ankara, Turkey)* ***«Generative AI for Smart Grids»***
12:35	***Pakizar Shamoi**, PhD, Professor, School of Information Technology and Engineering, Kazakh-British Technical University (Almaty, Kazakhstan)* ***«Computational Color Models and Human Perception: A Review and New Perspectives»***
12:50	***Arnur Tokhtabayev**, Founder and R&D Director of tLab Technologies (Astana, Kazakhstan)* ***«Unmasking the Unseen: Technologies for Detecting Threats that Evade Endpoint Security»***
13:00	**Lunch**
14:30-16:00	**Section presentations**
16:00-16:20	**Coffee break**
16:20-18:00	**Section presentations**
19:00	**Culture program**

PLENARY SESSION
16 May 2025 (Friday) (Time zone UTC+5 Astana time)

Venue: Assembly Hall, Astana IT University
Online: Zoom session

09:30	**Welcome coffee**
10:00-13:00	**Section presentations**
13:00	**Lunch**
14:30-16:00	**Section presentations**
16:00-16:20	**Coffee break**
16:20-18:00	**Section presentations**
18:00	**Plenary session: conference results. Conference closing**
19:00	**City tour (optional)**

SECTION PRESENTATIONS
14 May 2025 (Wednesday)
(Time zone UTC+5 Astana time)

Section 1 https://us06web.zoom.us/j/89536751142?pwd=VFfE4xIAC3VbBQOAfoILaAFCqkxeGx.1

Section 2 https://us06web.zoom.us/j/84156187482?pwd=l6TDrDaoQkz17vv3Ll6PpRUu7z8yD8.1

Section 3 https://us06web.zoom.us/j/85649462617?pwd=JGG5PNmmJo9909cKUBpL9N2qspAx1t.1

Section 4 https://us06web.zoom.us/j/86134268639?pwd=VgiVeqLtb5dVXaxbNR7kTa6QusBt5A.1

Workshop https://us06web.zoom.us/j/85880042764?pwd=3nlxornti9oDeL6brFG1t2Grjdj6va.1

09:00	**Participants registration**
09:30	**Welcome coffee**
10:00	**Greetings**
10:30	**Plenary presentations (Venue: Assembly Hall)**
13:00	**Lunch**
14:30	**Section presentations**
14:30 16:00	**SECTION 1. Technology and Engineering Management**
ID 2	1. Jagadeesh Kumar Nadella, Department of CSE V.R. Siddhartha Engineering College, India 2. Ramesh Kumar Panneerselvam, Faculty of Department of CSE V.R.Siddhartha Engineering College, India 3. Ribka Puli, Department of CSE V.R.Siddhartha Engineering College, India 4. J.N.L.V.S Medhini Kurmala, Department of CSE V.R.Siddhartha Engineering College, India **Silk Hatchery - The Silkworm Monitoring System**
ID 23	1. Sergiy Paliy, Taras Shevchenko National University of Kyiv, Ukraine 2. Volodymir Druzhynin, Taras Shevchenko National University of Kyiv, Ukraine 3. Oleksandr Kuchanskyi, Astana IT University, Kazakhstan

	4. Myroslava Gladka, Taras Shevchenko National University of Kyiv, Ukraine Tetyana Honcharenko, Kyiv National University of Construction and Architecture, Ukraine. **IoT Technology for Energy Saving in Educational Buildings by Accounting for Human Body Heat**
ID 29	1. John Francis, Sahrdaya College of Engineering & Technology, India 2. Joselit S Thayil, Sahrdaya College of Engineering & Technology, India 3. Bharath P.V., Sahrdaya College of Engineering & Technology, India 4. Vidyamol K., Sahrdaya College of Engineering & Technology, India 5. Binet Rose Devassy, Sahrdaya College of Engineering & Technology, India **Hardware implementation of AMDF-BASED compressed sensing for IoT and EDGE analytics**
ID 41	1. Ruchita Padmakar Rangari, Government College of Engineering, Chhatrapati Sambhajinagar, India 2. Dr. Sandhya Sudhakar Kulkarni, Government College of Engineering, Chhatrapati Sambhajinagar, India **Enhanced Design and Regulation of a Parallel Module Integrated PV System Utilizing MPPT and Voltage Source Converter (VSC)**
ID 50	1. Kulyk Roman, Taras Shevchenko National University of Kyiv, Ukraine 2. Morozov Viktor, Technology Taras Shevchenko National University of Kyiv, Ukraine. **The forecasting of the consequences of nonlinear environmental impacts in large-scale IT projects**
ID 61	1. Askhat Asset, Al-Farabi Kazakh National University, Kazakhstan 2. Vadim Zhmud, Al-Farabi Kazakh National University, Kazakhstan 3. Madina Mansurova, Al-Farabi Kazakh National University, Kazakhstan 4. Nurlan Sarsenbayev, Satbayev University, Kazakhstan 5. Gulmira Bayandina, Satbayev University, Kazakhstan 6. Gulbagila Kuandikova, Satbayev University, Kazakhstan **Analysis of alternative controller structures for modeling and controlling a multi-channel water plant**
ID 69	1. Viktor Morozov, Taras Shevchenko National University of Kyiv, Ukraine 2. Yegor Yegor, Taras Shevchenko National University of Kyiv, Ukraine **Study of risk management models in IT projects held by the distributed teams working asynchronously**
ID 70	1. Vadym Ziuziun, Taras Shevchenko National University of Kyiv, Ukraine 2. Nikita Petrenko, Taras Shevchenko National University of Kyiv, Ukraine **AI-Enhanced System Design for Agile Sprint Management and Velocity Prediction**
ID 71	1. Kushagra Singh Lodha, Manipal Academy of Higher Education, India 2. Narendra Khatri, Manipal Academy of Higher Education, India 3. Harish Sharma, Manipal University Jaipur, India **Advanced Battery Management System Design and Validation Using Simulink for Enhanced Efficiency and Longevity**
ID 74	1. Nathan S., M. Kumarasamy college of Engineering, India 2. Raguladhithiya S., M. Kumarasamy college of Engineering, India 3. Shanmugavadivel G., M. Kumarasamy college of Engineering, India 4. Rakesh C., M. Kumarasamy college of Engineering, India **IoT based EV multiple fault detection and battery management**
16:00	**Coffee break**
16:20 18:00	**SECTION 1. Technology and Engineering Management**
ID 82	1. Jayraj Dhaigude, Vishwakarma Institute of Technology, India

	IOT-Based disaster tracking and Emergency response communication System using Machine-Learning Algorithm
ID 83	1. Nurlan Abzalbekov, Astana IT University, Kazakhstan 2. Nuraiym Kuandyk, Astana IT University, Kazakhstan 3. Zarina Kutpanova, Astana IT University, Kazakhstan 4. Zhakupov Timur, Kaz Green Tek Solar, Kazakhstan 5. Ruslan Omirgaliyev, Astana IT University, Kazakhstan **Application of KAN in Classifying Solar Panel Faults from Images**
ID 90	1. Estak Ahmed, Monroe University, USA 2. Mujiba Shaima, Monroe University, USA 3. Mazharul Islam Tusher, Monroe University, USA 4. Norun Nabi, Washington University of Science and Technology, USA 5. Md Nasir Uddin Rana, Monroe University, USA 6. Susanta Saha, Monroe University, USA **HEALTH CARE - an Android application implementation and analyzing user experience**
ID 91	1. Vadym Ziuziun, Taras Shevchenko National University of Kyiv, Ukraine 2. Larysa Myrutenko, Taras Shevchenko National University of Kyiv, Ukraine 3. Oleksandra Myrutenko, Taras Shevchenko National University of Kyiv,Ukraine 4. Anastasia Avramets, Taras Shevchenko National University of Kyiv,Ukraine **Mathematical justification for the development of a web platform for beauty salon operations**
ID 104	1. Kateryna lavrukhina, Kyiv national university of construction and architecture, Ukraine **Research on the prospects and risks of digital economic transformation: positive impact, key threats, and the role of clusters in the transformation of Ukraine's national economy**
ID 113	1. Dejair Jose de Matos, Federal Institute of Sao Paulo - IFSP, Brazil 2. Andrei Gurtov, Linkoping University, Sweden 3. Flavio Luiz dos Santos de Souza, Federal Institute of Sao Paulo, Brazil 4. Marcio Andrey, Teixeira Federal Institute of Sao Paulo, Brazil 5. Lourenc¸o Alves Pereira Junior, Aeronautics Institute of Technology, Brazil 6. Carlos Henrique Costa Ribeiro, Aeronautics Institute of Technology, Brazil **A IoT-Driven Smart Water Monitoring: A Solution Towards Sustainable Resource Management**
ID 135	1. Akyltai Burgegulov, al-Farabi Kazakh National University, Kazakhstan 2. Talgat Mazakov, al-Farabi Kazakh National University, Kazakhstan 3. Aigerim Mazakova, al-Farabi Kazakh National University, Kazakhstan 4. Sholpan Jomartova, al-Farabi Kazakh National University, Kazakhstan 5. Magzhan Aliaskar, International Engineering and Technology University, Kazakhstan 6. Nurdaulet Issimov, International Engineering and Technology University, Kazakhstan **Evacuation of the population from the building taking into account the capacity of staircrossings**
ID 164	1. Sergey Kinzhikeyev, Astana IT University, Kazakhstan 2. D. Dung Nguyen, Le Quy Don Technical University, Vietnam 3. Q. Khai Phung, Air Force Academy, Vietnam 4. Nurkhat Zhakiev, Astana IT University, Kazakhstan 5. Dina Kinzhikeyeva, Research Institute «Ghalam», Kazakhstan **Enhancing Drone Control Efficiency Through Advanced Internet-Based Communication Techniques**
ID 168	1. Alibek Anarbayev, Toraighyrov University, Kazakhstan 2. Sayat Moldakhmetov, M. Kozybayev North-Kazakhstan University, Kazakhstan 3. Aleksandr Kislov, Toraighyrov University, Kazakhstan 4. Dmitriy Ritter, M. Kozybayev North-Kazakhstan University, Kazakhstan 5. Pavel Petrov, M. Kozybayev North-Kazakhstan University, Kazakhstan

	Spark gap electromagnetic interference generator
19:00	**Dinner**
14:30 16:00	**SECTION 2. IT in Education and Research**
ID 8	1. Himanshu Singh, University Institute of Engineering Chandigarh University, India 2. Aditya Sharma, Vats University Institute of Engineering Chandigarh University, India 3. Rohit Kumar, University Institute of Engineering Chandigarh University, India 4. Prabhjot Kaur, University Institute of Engineering Chandigarh University, India **Landmark Detection Using Convolutional Neural Networks (CNN)**
ID 17	1. Sergey Bushuyev, Kyiv National University of Construction and Architecture, Ukraine 2. Svetlana Murzabekova, "NNEF" Public Foundation, Kazakhstan 3. Maira Khussainova, "NNEF" Public Foundation, Kazakhstan 4. Rakhmatullo Saidullayev, "NNEF" Public Foundation, Kazakhstan 5. Natalija Bushuyeva, Kyiv National University of Construction and Architecture, Ukraine 6.Oleh Ilin, Kyiv National University of Construction and Architecture, Ukraine **Managing SMART University Creative Capacity Driving by AI and TRIZ Principles**
ID 45	1. Beknazarova Saida Safibullayevna, Tashkent University of Information Technologies named after Muhammad Al- Khwarizmi, Uzbekistan 2. Abdullayev Zafarbek Safibullayevich, Namangan State University, Uzbekistan 3. Abdullayev Safibullo Xabibullayevich, Namangan Pedagogical institute, Uzbekistan 4. Abdullayeva Ozoda Safibullayevna, Namangan Engeneering-Construction Institute, Uzbekistan. **Effective Method of Digital Processing of Systems Media Resource of Business Entities**
ID 49	1. Sonali Gavali, Patil Institute of Technology, India 2. Harshal Kenjale, Patil Institute of Technology, India 3. Ankita Suryawanshi, Patil Institute of Technology, India 4. Adyaraj Bhujbal, Patil Institute of Technology, India **Plant Disease Detection Using Deep Learning: A Fine-Tuned Xception Model**
ID 77	1. Zhanerke Temirbekova, International IT University, Kazakhstan 2. Dina Tolegen, International IT, University, Kazakhstan **Analysis of Virtualization Technologies to Optimize the Use of Hardware in Data Centers**
ID 80	1. Vadym Ziuziun, Taras Shevchenko National University of Kyiv, Ukraine 2. Dmytro Bredikhin, Taras Shevchenko National University of Kyiv, Ukraine **Conceptual and Mathematical Modeling in Managing a Project for Developing a Web Platform to Enhance Environmental Awareness**
ID 94	1. Aissulu Kaldarova , International Information Technology University, Kazakhstan 2. Marco Angelo Vasquez, International Information Technology University, Kazakhstan 3. Nazym Baisbay, International Information Technology University, Kazakhstan **Improving Students' Speaking Skills with Flipgrid: A Tech-Driven Approach**
ID 119	1. Gusti Agastia Yogeswara, Bina Nusantara University Jakarta, Indonesia 2. Saskia Maya Adiva, Bina Nusantara University Jakarta, Indonesia 3. Jessica Ashley, Bina Nusantara University Jakarta, Indonesia 4. Sulistyo Heripracoyo, Bina Nusantara University Jakarta, Indonesia **Analyzing the Influence of Gamification Features on User Retention in Duolingo**
ID 130	1. Tolkyn Tuleutayeva, Astana IT University, Kazakhstan 2. Alua Myrzakerimova, Astana IT University, Kazakhstan **Using Machine Learning for the Prediction and Treatment of Mental Health Conditions**

ID 139	1. Ainur Bazarbayeva, Kazakh National Women's Teacher Training University, Kazakhstan 2. Asyl Bauyrzhakyzy, Kazakh National Women's Teacher Training University, Kazakhstan **Exploring IT Graduates' Career Readiness: Courses, Internships, and Industry Alignment**
16:00	**Coffee break**
16:20 18:00	**SECTION 2. IT in Education and Research**
ID 150	1. Asanali Ospan, Astana IT University, Kazakhstan 2. Alua Myrzakerimova, Astana IT University, Kazakhstan **Designing an Adaptive Educational Platform for UNT Preparation: A Machine Learning-Based Approach**
ID 160	1. Tursynkhan Tursunov, Astana IT University, Kazakhstan 2. Dinara Kaibassova, Astana IT University, Kazakhstan **Comparative analysis of recommendation algorithms collaborative, content based and hybrid approaches**
ID 179	1. Zhumaniyaz Mamatnabiyev. SDU University, Kazakhstan **Enhancing IoT Education with an Educational Robot: A Case Study on Hands-On Learning**
ID 185	1. Tamirlan Kulzhanov, Astana IT University, Kazakhstan 2. Alua Myrzakerimova, Astana IT University, Kazakhstan **Diagnosis Using Electrocardiogram (ECG) Dataering Astana IT University Astana, Kazakhstan**
ID 249	1. Dingkun Zheng, Al-Farabi Kazakh National University, Kazakhstan 2. Chenghan Yang, Al-Farabi Kazakh National University, Kazakhstan 3. Qiyuan Liu, Xi'an Jiaotong-Liverpool University, China, Al-Farabi Kazakh National University, Kazakhstan 4. Baidong Zhao, Al-Farabi Kazakh National University, Kazakhstan 5. Baurzhan Belgibaev, Al-Farabi Kazakh National University, Kazakhstan **Optimizing Truck Delivery Routes in Urban Logistics: An Improved Genetic Algorithm Approach**
ID 255	1. Assel Ospan, Kazakh National University, Kazakhstan 2. Aman Mussa, Kazakh National University, Kazakhstan 3. Madina Mansurova, Kazakh National University, Kazakhstan 4. Talshyn Sarsembayeva, Kazakh National University, Kazakhstan **LLM Agents for Enhanced Tabular Data Interpretation: A Perspective**
ID 268	1. Ayanbek Serikov, Astana IT University, Kazakhstan 2. Andrii Biloshchytskyi, Astana IT University, Kazakhstan 3. Beibut Amirgaliyev, Astana IT University, Kazakhstan **Analytical Model for Developing Educational Programs Considering Kazakh IT Labour Demands and Student Performance Prediction**
ID 304	1. Absalyam Kuanysh, L.N. Gumilyov Eurasian National University, Kazakhstan 2. Khuralay Moldamurat , L.N. Gumilyov Eurasian National University, Kazakhstan 3. Cengiz Hajizadeh, Istanbul teknik üniversitesi, Turkey 4. Kunnur Dosimbayeva, L.N. Gumilyov Eurasian National University, Kazakhstan 5. Assel Atyzova, L.N. Gumilyov Eurasian National University, Kazakhstan **Algorithm for using artificial intelligence in predicting fire danger in the Semey forest in Kazakhstan**
ID 318	1. Dilara Abzhanova, Astana IT University, Kazakhstan 2. Sapar Toxanov, Astana IT University, Kazakhstan

	3. Andrii Biloshchytskyi, Astana IT University, Kazakhstan 4. Aidos Mukhatayev, Astana IT University, Kazakhstan 5. Saltanat Sharipova, Astana IT University, Kazakhstan **Method for forming project groups for collaborative scientific activity based on the analysis of publication elements**
19:00	**Dinner**
14:30 16:00	**SECTION 3. Emerging Trends and Technologies in IT Application**
ID 34	1. Khuralay Moldamurat, L.N. Gumilyov Eurasian National University, Kazakhstan 2. Sabyrzhan Atanov, L.N. Gumilyov Eurasian National University, Kazakhstan 3. Makhabbat Bakyt, L.N. Gumilyov Eurasian National University, Kazakhstan 4. Luigi La Spada, Edinburgh Napier University, United Kingdom Nida Zeeshan, Edinburgh Napier University, United Kingdom 5. Alzhan Tilenbayev, L.N. Gumilyov Eurasian National University, Kazakhstan **High-speed data transmission and encryption from low-orbit satellites for forest fire monitoring and forecasting**
ID 55	1. Matthew Martianus Henry, IPB University, Indonesia 2. Sri Wahjuni, IPB University, Indonesia 3. Auriza Rahmad Akbar, IPB University, Indonesia 4. Wulandari Wulandari, IPB University, Indonesia **Integration of MobileNet-SSD and Isolation Forest as a Prototype of Web-Based Chicken Movement Anomaly Detector**
ID 60	1. Alisher Kaziz, Astana IT University, Kazakhstan 2. Bolatzhan Kumalakov, Astana IT University, Kazakhstan **Evaluating the Performance of KubernetesOrchestrated Multi-Agent Systems: A Case Study on University Course Timetabling**
ID 75	1. Nazym Kaziyeva, L.N. Gumilyov Eurasian National University, Kazakhstan 2. Ablaikhan Madiev, L.N. Gumilyov Eurasian National University, Kazakhstan 3. Serik Aitzhanov, KazSetTelecom LLP, Kazakhstan 4. Arman Kaliyev, Group 42, Kazakhstan 5. Azhar Kuttybek, Astana IT University, Kazakhstan **Animated biometric QR-codes as an innovative solution in information systems**
ID 76	1. Ivan Opirskyy, Lviv Polytechnic National University, Ukraine 2. Andrii Biloshchytskyi, Astana IT University, Kazakhstan **Methodology for assessing information security risks of the Cyber-Physical System of Underground Gas Pipelines**
ID 93	1. Aigerim Aitim, International Information Technology University, Kazakhstan 2. Dariga Sattarkhuzhayeva, International Information Technology University, Kazakhstan 3. Aisulu Khairullayeva, International Information Technology University, Kazakhstan **Development of a Translator for Kazakh Sign Language to Speech Using Gesture Recognition**
ID 118	1. Aigerim Aitim , International Information Technology University, Kazakhstan 2. Aizhan Kakharman, International Information Technology University, Kazakhstan 3. Dana Iyembergen, International Information Technology University, Kazakhstan 4. Yerkebulan Malikomar, International Information Technology, University, Kazakhstan 5. Olzhas Kassymbayev, International Information Technology, University, Kazakhstan **Real-Time Road Accident Detection Using Machine Learning and Audio Signals**
ID 123	1. Xuanmin Lu, Northwestern Polytechnical University, China 2. Hongwei Zhao, Northwestern Polytechnical University, China 3. Gulzat Turken, Al-Farabi Kazakh National University, Kazakhstan

	Research on the Comprehensive Simulation Testing Platform of Navigation Satellite Based on BD3
ID 58	1. Yaroslav Hozak, Taras Shevchenko National University of Kyiv, Ukraine Sergiy Paliy, Taras Shevchenko National University of Kyiv, Ukraine **Optimizing Kernel Configurations and Convolutional Strategies for Efficient Shallow CNNs in Real-Time Vision Systems**
ID 127	1. Aigul Kulakayeva, International Information Technologies University, Kazakhstan 2. Ibrahim Mektep, International Information Technologies University, Kazakhstan 3. Aigul Nurlankyzy, Satpayev University, Energo University, Kazakhstan 4. Gauhar Jakanova, International Information Technologies University, Energo University, Kazakhstan **Analysis and prospects for restoring coverage in 5G NR RedCap**
16:00	**Coffee break**
16:20 18:00	**SECTION 3. Emerging Trends and Technologies in IT Application**
ID 138	1. Yedil Zhadil, Al-Farabi Kazakh National University, Kazakhstan 2. Talshyn Sarsembayeva, Al-Farabi Kazakh National University, Kazakhstan 3. Madina Mansurova, Al-Farabi Kazakh National University, Kazakhstan 4. Balzhan Duisekeyeva, H.A.Yassawi International Kazakh-Turkish University, Kazakhstan **An AI-Driven Smart Digital Assistant Bot for Improving Student Support Services**
ID 141	1. Geo Francis Edakulathur, Karpagam Academy of Higher Education Coimbatore, India 2. Joseph Mathew, Rajagiri School of Engineering and Technology Kochi, India **OMEECBR: A Novel Optimized Metaheuristic-Driven Energy-Efficient Cluster-Based Routing Protocol for IoT-Enabled WSNs**
ID 144	1. Kuanysh Bakirov, Eurasian National University, Kazakhstan 2. Aian Kenzhebai, Astana IT University Astana, Kazakhstan 3. Jamalbek Tussupov, Eurasian National University Astana, Kazakhstan 4. Ibraheem Shayea, Istanbul Technical University, Türkiye 5. Aruzhan Shoman, Astana IT University Astana, Kazakhstan 6. Didar Yedilkhan, Astana IT University Astana, Kazakhstan **Integrating AI-based Monitoring System for Microgreen Growth in Vertical Farming**
ID 154	1. Akerke Makhanbet, Eurasian National University Astana, Kazakhstan 2. Shreyas Dongre, MPSTME, NMIMS University Mumbai, India **Xtreme Distil for Recommendation Systems**
ID 156	1. Viktor Morozov, Taras Shevchenko National University of Kyiv, Ukraine 2. Danylo Dzekunov, Taras Shevchenko National University of Kyiv, Ukraine **Optimization of Deep Learning Model Training through Hardware Configuration Analysis and Fine-Tuning Techniques**
ID 159	1. Olesia Romanenko, Kyiv National University of Construction and Architecture, Ukraine 2. Liudmyla Alaverdian, Kyiv National University of Construction and Architecture, Ukraine 3. Olha Yudicheva, Kyiv National University of Construction and Architecture, Ukraine **Digital Transformation of the Ukrainian Construction Industry: Current Challenges and Prospects for Utilizing Global Experience**
ID 165	1. Adil K. Maidanov, L. N. Gumilyov Eurasian National University Astana, Kazakhstan 2. Hüseyin Canbolat, Ankara Yıldırım Beyazıt University, Turkey 3. Sabyrzhan K. Atanov, L. N. Gumilyov Eurasian National University Astana, Kazakhstan **Optimized UAV Control: Evaluating SMC and SMC-Based Backstepping Strategies**

ID 177	1. Kataieva Yevheniia, Slovak University of Technology in Bratislava, Slovakia 2. Lubomír Silny, Slovak University of Technology in Bratislava Bratislava, Slovakia **An Approach to Developing a Neural Network for Determining the Moisture Index of Plants**
ID 195	1. Razan Alharith, Member, Southwest Jiaotong University Chengdu, China 2. Hiba Ahmed, College of Customs, Medical Science and Technology, Kartoum, Sudan 3. Ashraf Osman Ibrahim, Universiti Teknologi PETRONAS Seri Iskandar, Malaysia 4. Mohammed A. Saleh, Universiti Malaysia Sabah Sabah, Malaysia 5. Amanzholova Saule, Astana IT University Astana, Kazakhstan 6. Adilzhanova Saltanat, Al-Farabi Kazakh National University Almaty, Kazakhstan **Anomaly Detection in IoT Healthcare Security using Machine Learning Methods**
ID 424	1. Yerdauit Torekhan, Kazakh-British Technical University, Kazakhstan 2. Nurdaulet Altynbekov, Kazakh-British Technical University, Kazakhstan 3. Pakizar Shamoi, Kazakh-British Technical University, Kazakhstan **Aesthetic Index for Art Paintings Using Visual Features**
ID 436	1. Dilnaz Zhaxylykova, Astana IT University, Kazakhstan 2. Ibraheem Shayea, Istanbul Technical University, Turkiye 3. AbdulraqebAlhammadiUniversiti Teknologi Malaysia 4. Laura Aldasheva, Astana IT University, Kazakhstan **Implementation of Continuous Signal Pre-Processing Methods For Segmentation**
ID 219	1. Tetyana Honcharenko, Kyiv National University of Construction and Architecture, Ukraine 2. Serhii Dolhopolov, Kyiv National University of Construction and Architecture, Ukraine 3. Illia Sachenko, Kyiv National University of Construction and Architecture, Ukraine 4. Igor Achkasov, Kyiv National University of Construction and Architecture, Ukraine 5. Anatolii Fesan, Kyiv National University of Construction and Architecture, Ukraine 6. Sergiy Paliy, Taras Shevchenko National University of Kyiv, Kyiv, Ukraine **Automated Face Recognition System Using Convolutional Neural Network**
19:00	**Dinner**
14:30 16:00	**SECTION 4. Data Science and Advanced Analytics**
ID 16	1. Viracha Kobkuvattana, University of Europe for Applied Sciences, Germany 2. Talha Ali Khan, University of Europe for Applied Sciences, Germany 3. Iftikhar Ahmed, University of Europe for Applied Sciences, Germany 4. Rand Kouatly, University of Europe for Applied Sciences, Germany 5. Raja Hashim Ali, University of Europe for Applied Sciences, Germany 6. Meerah Karunanithi, University of Europe for Applied Sciences, Germany **Segmentation of Beer Consumers in Europe using K-means Clustering**
ID 19	1. Sungeun Lee, University of Europe for Applied Sciences, Germany 2. Raja Hashim Ali, University of Europe for Applied Sciences, Germany 3. Talha Ali Khan, University of Europe for Applied Sciences, Germany 4. Meerah Karunanithi, University of Europe for Applied Sciences, Germany 5. Iftikar Ahmad, University of Europe for Applied Sciences, Germany 6. Rand Kouatly, University of Europe for Applied Sciences, Germany **Analysing Public Perception of South Korea's Low Birth Rate Policies Using NLP-based Sentiment Analysis**
ID 24	1. Birlik Mendybayev, L. N. Gumilyov Eurasian National University, Kazakhstan 2. Tuspekova Kuralay, Kyrgyz Economic University, Kyrgyzstan 3. Tamerlan Mendybayev Almaty Energo University, Kazakhstan

	Applying Advanced Analytics and Natural Language Processing to Assess the Effectiveness of Political Rhetoric: A Case Study of Presidential Messages in Kazakhstan
ID 28	1. Abulkhaiyr Mendybayev, University of Central Florida, USA 2. Burbayeva Perizat, L. N. Gumilyov Eurasian National University, Kazakhstan 3. Tamerlan Mendybayev, Almaty Energo University, Kazakhstan 4. Tuspekova Kuralay, Kyrgyz Economic University, Kyrgyzstan 5. Ayimzhan Mendybay, Qorgaljyn Ecological Observatory, Kazakhstan **Geospatial Analysis of Urbanization: Insights for Regional Development Planning in Kazakhstan**
ID 43	1. Javed Hossain, Nanjing University of Information Science and Technology, China 2. Peilan Xu, Nanjing University of Information Science and Technology, China **Transfer Learning Assisted Cervical Cancer Categorization from Pap Smear Images Via the Multihead Attention Technique**
ID 63	1. Aigerim Aitim, International Information Technology University, Kazakhstan 2. Aidana Muratbekova, International Information Technology University, Kazakhstan 3. Zhamilya Abdildanova, International Information Technology University, Kazakhstan 4. Symbat Tynyshtykbayeva, International Information Technology University, Kazakhstan 5. Nurbike Nalkhozha, International Information Technology University, Kazakhstan **Enhancing Lung Disease Detection with Machine Learning**
ID 89	1. Bakdaulet Abdrakhmanov, Astana IT University, Kazakhstan **Hybrid AI-Based Static Analysis for Malware Detection: A Feature Engineering and Model Optimization Approach**
ID 92	1. Pavel Tsoy, Astana IT University, Kazakhstan 2. Alua Myrzakerimova, Astana IT University, Kazakhstan **Overview of Machine Learning Algorithms Application in Kazakhstan Healthcare Sector: Analysis of Existing Solutions and Their Effectiveness**
ID 99	1. Dina Koishiyeva, Almaty University of Power Engineering and Telecommunications, Kazakhstan 2. Jeong Won Kang, Korea National University of Transportation, Republic of Korea 3. Assel Mukasheva, Kazakh-British Technical University, Kazakhstan **Deep Learning with Multi-Head Attention for Respiratory Sound Analysis**
ID 100	1. Dina Koishiyeva, Almaty University of Power Engineering and Telecommunications, Kazakhstan 2. Jeong Won Kang, Korea National University of Transportation, Republic of Korea 3. Assel Mukasheva, Kazakh-British Technical University, Kazakhstan **Spectral Analysis of EEG Signals for Parkinson's Disease Classification Using Bi-LSTM**
ID 103	1. Abdurakhim Bakytzhan, Astana IT University, Kazakhstan 2. Dinara Kaibassova, Astana IT University, Kazakhstan **Face Recognition System of Professional Esports Players Based on Convolutional Neural Network**
16:00	**Coffee break**
16:20 18:00	**SECTION 4. Data Science and Advanced Analytics**
ID 111	1. Batyr Sharimbayev, SDU University, Kazakhstan 2. Shirali Kadyrov, New Uzbekistan University, Uzbekistan **Text Classification for AI-Generated Content with Machine Learning and Deep Learning Models**
ID 116	1. Syndar Satbayev, Astana IT University, Kazakhstan

	2. Didar Yedilkhan, Astana IT University, Kazakhstan 3. Aruzhan Shoman, Astana IT University, Kazakhstan 4. Mira Bukayeva, Astana IT University, Kazakhstan **Intelligent Urban Greening Assessment Using Machine Learning and Aerial Imaging**
ID 121	1. Gulzat Turken1, Al-Farabi Kazakh National University, Kazakhstan 2. Rahim Ahmed Druba, Al-Farabi Kazakh National University, Kazakhstan 3. Aidyn Kuandyk, Al-Farabi Kazakh National University, Kazakhstan 4. Myrzabek Mergenov, Al-Farabi Kazakh National University, Kazakhstan **Enhancing Query Classification in Chatbot Using LSTM**
ID 134	1. Volodymyr Levytskyi, Kyiv National University of Construction and Architecture, Ukraine 2. Pavlo Kruk, Kyiv National University of Construction and Architecture, Ukraine 3. Oleksii Lopuha, Kyiv National University of Construction and Architecture, Ukraine **Optimization of Transport Traffic in a Network of Medium Complexity Using Deep Learning with Reinforcement**
ID 136	1. Zhanseri Ikram, Al-Farabi Kazakh National University, Kazakhstan **Depth-Guided Neural Network for Robust Face Anti-Spoofing**
ID 145	1. Aliya Kalykulova, Astana IT University, Kazakhstan 2. Almas Alzhanov, Astana IT University, Kazakhstan **Term-Unigram Extractions Using Embedding-Based Filtering**
ID 146	1. Nuray Dauletkhan, SDU University Almaty, Kazakhstan 2. Khaled Mohamad, SDU University Almaty, Kazakhstan **Comparative Analysis of Statistical, Machine Learning, and Deep Learning Models for PM2.5 Prediction in Almaty**
ID 147	1. Ramazan Duisenbek, Astana IT University, Kazakhstan 2. Tamara Zhukabayeva, Astana IT University, Kazakhstan **Real-Time Kazakh Sign Language Alphabet Recognition Using SVM and YOLOv8n**
ID 151	1. Artur Markov, Taras Shevchenko National University of Kyiv, Ukraine 2. Oleh Zaritskyi, Taras Shevchenko National University of Kyiv, Ukraine **Improvements to Sequential Approaches in A/B Testing**
ID 157	1. David Novikov, Astana IT University, Kazakhstan 2. Dinara Akbergen, Astana IT University, Kazakhstan 3. Riza Akhitova, Astana IT University, Kazakhstan **From Comments to Insights: Comparing Local and Online LLM Models in Social Media Sentiment Evaluation**
ID 158	1. Viktor Morozov, Taras Shevchenko National University of Kyiv, Ukraine 2. Vladyslav Deineha, Taras Shevchenko National University of Kyiv, Ukraine 3. Bohdan Yeremenko, Taras Shevchenko National University of Kyiv, Ukraine **Development of Energy Consumption Prediction Models Based on Gradient Descent Methods**
19:00	**Dinner**
14:30 16:00	**Workshop "Actual Problems of Computational Mathematics, dedicated to the 70th anniversary of Professor Rysbaiuly Bolatbek"**
ID 231	Yeldos Zhandaulet, Astana IT University, Kazakhstan **Numerical Study of the Water Surface Movement During a Dam Break in an L-shaped Channel Using VOF Method**
ID 335	1. Sultan Alpar, La Rochelle Université, France; International Information Technology University (IITU), Kazakhstan 2. Julien Berger, La Rochelle Université, France 3. Rafik Belarbi, La Rochelle Université, France **Energy Efficient Shape Optimization of Building Facades in Severe Continental Climates**

ID 341	1. Zhanat Karashbayeva, Astana IT University, Kazakhstan 2. Suelen Gasparin, Building performance in their environment (BPE) Research team, France 3. Julien Berger, La Rochelle Université, France **Numerical Simulation of Heat Transfer of a Building Wall Using Non-Uniform Adaptive Moving Grid**
ID 385	1. Aigul Satybaldina, International Information Technology University, Kazakhstan 2. Aizhan Ydyrys, International Information Technology University, Kazakhstan **Analytical solution of steady-state heat equation in polar coordinates for multilayer soils**
ID 387	1.Ruslan Krasnozhonov, International Information Technology University, Kazakhstan 2.Marat Nurtas, International Information Technology University, Kazakhstan **Modeling the Propagation of Acoustic Waves in an Elastic Medium Using Physics-Informed Neural Networks**
ID 433	1.Azamat Assubai, International Information Technology University, Kazakhstan 2. Bolatbek Rysbaiuly, Astana IT University, Kazakhstan **The inverse problem of heat transfer in anisotropic bodies**
ID 434	1.Aiymzhan Baitureyeva, Al-Farabi Kazakh National University, Kazakhstan 2.Bolatbek Rysbaiuly, Astana IT University, Kazakhstan **Determination of Soil Thermal Conductivity and Convective Heat Transfer Coefficients Using an Inverse Problem Approach**
16:00	**Coffee break**
16:20 18:00	**Workshop "Actual Problems of Computational Mathematics, dedicated to the 70th anniversary of Professor Rysbaiuly Bolatbek"**
ID 435	1.Gaukhar Marat, Al-Farabi Kazakh National University, Kazakhstan 2. Bolatbek Rysbaiuly, Astana IT University, Kazakhstan 3. Aizhan Ydyrys, International Information Technology University, Kazakhstan **Coefficient Inverse Problem for the Hyperbolic Equation of Thermal Conductivity in Two-Layer Soil**
ID 437	1.Nazerke Rysbayeva, Kazakh-British Technical University, Kazakhstan 2. Korlan Rysbayeva, Engineering Academy, Kazakhstan **Inverse Problem for Nonlinear Moisture Conductivity Equations**
19:00	**Dinner**

SECTION PRESENTATIONS
15 May 2025 (Thursday)
(Time zone UTC+5 Astana time)

Section 1 https://us06web.zoom.us/j/82374765780?pwd=7jslEb7QgTb9vtXzpZ11WossPnhBXo.1
Section 2 https://us06web.zoom.us/j/84156187482?pwd=l6TDrDaoQkz17vv3Ll6PpRUu7z8yD8.1
Section 3 https://us06web.zoom.us/j/85649462617?pwd=JGG5PNmmJo9909cKUBpL9N2qspAx1t.1
Section 4 https://us06web.zoom.us/j/86134268639?pwd=VgiVeqLtb5dVXaxbNR7kTa6QusBt5A.1
Workshop https://us06web.zoom.us/j/85880042764?pwd=3nlxornti9oDeL6brFG1t2Grjdj6va.1

09:00	**Participants registration**
09:30	**Welcome coffee**
10:00	**Plenary presentations (Venue: Assembly Hall)**
13:00	**Lunch**
14:30	**Section presentations**
14:30 16:00	**SECTION 1. Technology and Engineering Management**
ID 245	1. Serhii Chernov, Admiral Makarov National Ship Building Universit, Ukraine 2. Serhii Titov, Admiral Makarov National Ship Building University, Ukraine 3. Liudmyla Chernova, Admiral Makarov National Ship Building University, Ukraine 4. Liubava Chernova, Admiral Makarov National Ship Building University, Ukraine 5. Omirbayev S.M., Astana IT University, Kazakhstan, 6. Roman Lishchuk, Uman National University of Horticulture, Ukraine **Optimization Mechanisms of Assignment in Project Management**
ID 246	1. Serhii Chernov, Admiral Makarov National University of Shipbuilding, Ukraine 2. Liubava Chernova, Admiral Makarov National University of Shipbuilding, Ukraine 3. Iryna Zhuravel, Admiral Makarov National University of Shipbuilding, Ukraine 4. Liudmyla Chernova, Admiral Makarov National University of Shipbuilding, Ukraine 5. Trushliakov Evgeniy, Admiral Makarov National University of Shipbuilding, Ukraine 6. Neftissov A.V., Astana IT University, Kazakhstan, **Resource planning and optimization of it project work schedule using a general linearization algorithm**
ID 171	1. Gulim Dzhobalaeva, Satbayev University, Kazakhstan 2. Sara Kengesbayeva, Satbayev University, Kazakhstan 3. Yerlan Tashtay, Satbayev University, Kazakhstan 4. Kuanysh Mussilimov, Satbayev University, Kazakhstan 5.Inkar Issakozhayeva, Satbayev University, Kazakhstan 6. Aidana Torekul, ALT University, Kazakhstan **Simulation and optimization of UAV group control strategies**
ID 180	1. Dilara Abzhanova, Astana IT University, Kazakhstan 2. Sapar Toxanov, Astana IT University, Kazakhstan 3. Alexandr Neftissov, Astana IT University, Kazakhstan 4. Batyrbek Bakytkereiuly, Astana IT University, Kazakhstan 5. Dias Utebayev, Astana IT University, Kazakhstan **Development of a model and method for monitoring water resources at hydraulic structures**

ID 190	1. Qais Qassim, Astana IT University, Kazakhstan 2. Nessibeli Askarbekova, Astana IT University, Kazakhstan 3. Amanzholova Saule, Astana IT University, Kazakhstan **Detecting Anomalous DNP3 Commands Using Temporal Analysis**
ID 217	1. Talgat Mazakov, Al-Farabi Kazakh National University, International Engineering and Technology University, Kazakhstan 2. Gulzat Ziyatbekova, Al Al-Farabi Kazakh National University, Almaty Technological University, Kazakhstan 3. Sholpan Jomartova, Al-Farabi Kazakh National University, Kazakhstan 4. Aigerim Mazakova, Al-Farabi Kazakh National University, Kazakhstan 5. Magzhan Aliaskar, Al-Farabi Kazakh National University, Kazakhstan 6. Yestay Mergengali, Al-Farabi Kazakh National University, Kazakhstan **Hardware and software complex for water body breakthroat alert and monitoring**
ID 232	1. Abzal Kyzyrkanov, Astana IT University, Kazakhstan 2. Sabyrzhan Atanov, L. N. Gumilyov Eurasian National University, Kazakhstan 3. Shadi Aljawarneh, Jordan University of Science and Technology, Jordan 4. Nazira Tursynova, L. N. Gumilyov Eurasian National University, Kazakhstan 5. Zhenis Otarbay, Nazarbayev University, Astana IT University, Kazakhstan 6. Algys Saltanat, Astana IT University, Kazakhstan **Decentralized Coordination of Intelligent Robot Swarms**
ID 238	1. Symbat Nurgaliyeva, Astana IT university, Kazakhstan 2. Adi Abilgaziyev, Astana IT University, Kazakhstan **Development of an intelligent system for evaluating risk factors affecting public transport drivers**
ID 251	1. Iurii Chupryna, Kyiv National University of Construction and Architecture, Ukraine 2. Galyna Ryzhakova, Kyiv National University of Construction and Architecture, Ukraine 3. Andrii Biloshchytskyi, Astana IT University, Kazakhstan 4. Iryna Ivakhnenko, Kyiv National University of Construction and Architecture, Ukraine 5. Myroslava Zinchenko, Kyiv National University of Construction and Architecture, Ukraine 6. Mykhailo Malykhin, Kyiv National University of Construction and Architecture, Ukraine **Modular structure of the complex of information and technological resources for the energy sphere**
ID 252	1. Chupryna Khrystyna, Kyiv National University of Construction and Architecture, Ukraine 2. Kostiantyn Predun, Kyiv National University of Construction and Architecture, Ukraine 3. Viktoriya Gonchar, Kyiv National Economic University named after Vadym Hetman, 4. Artem Fesun, Kyiv National University of Construction and Architecture, Ukraine 5. Andrii Biloshchytskyi, Astana IT University, Kazakhstan 6. Mykola Fedorchenko, Kyiv National University of Construction and Architecture Ukraine **Research and assessment of the effectiveness of digital transformation processes of construction enterprises**
16:00	**Coffee break**

16:20 18:00	**SECTION 1. Technology and Engineering Management**
ID 270	1. Chenghan Yang, Al-Farabi Kazakh National University, Kazakhstan 2. Dingkun Zheng, Al-Farabi Kazakh National University, Kazakhstan 3. Aiym Koshanova, Al-Farabi Kazakh National University, Kazakhstan 4. Baurzhan Belgibaev, Al-Farabi Kazakh National University, Kazakhstan 5. Talshyn Sarsembayeva, Al-Farabi Kazakh National University, Kazakhstan 6. Baidong zhao, Al-Farabi Kazakh National University, Kazakhstan **An Improved Artificial Potential Field Method with LiDAR for Autonomous Navigation in Dynamic Food Production Environments**
ID 292	1. Aidarbek Shalakhmetov, Astana IT University, Kazakhstan 2. Didar Yedilkhan, Astana IT University, Kazakhstan 3. Khavazh Gadaborshev, ALMAU, Kazakhstan 4. Sanzhar Aubakirov, Al-Farabi Kazakh National University, Kazakhstan 5. Beibut Amirgaliyev, Astana IT University, Kazakhstan **Vehicle Routing Optimization: Urban Logistics Real-case Application**
ID 294	1. Nurbolat Amilbek, Astana IT University, Kazakhstan 2. Beibut Amirgaliyev, Astana IT University, Kazakhstan **Prediction and Optimization of Ride-Sharing Routes Using Recurrent Neural Network Models**
ID 306	1. Lesia Sorokina, Kyiv National University of Construction and Architecture, 2. Andrii Rosynskyi, Kyiv National University of Construction and Architecture, Ukraine 3. Dmytro Dubovyk, Kyiv National University of Construction and Architecture, Ukraine 4. Andrii Biloshchytskyi, Astana IT University, Kazakhstan 5. Oleh Onofriichuk, Academician Stepan Demianchuk International University of Economics and Humanities, Ukraine 6. Maksym Maltsev, Private Higher Education Institution «Rauf Ablyazov East European University», Ukraine **Transactional Risk Management in Construction and Reconstruction Investment Projects Using MATLAB Simulink and Fuzzy Decision Support Systems**
ID 327	1. Thomas A. Weber, Ecole Polytechnique F ´ ed´ erale de Lausanne ´Lausanne, Switzerland **Data-Driven Markovian Project Portfolio Tracking**
ID 363	1. Bakbergen Mendaliyev, Astana IT University, Kazakhstan 2. Didar Yedilkhan , Astana IT University, Kazakhstan **Predicting High Temporal Deviation in Traffic Flows Based on SUMO Simulation**
ID 412	1. Tetiana Fesenko, Kharkiv National University of Radio Electronics, Ukraine 2. Galyna Fesenko, O. M. Beketov National University of Urban Economy in Kharkiv, Ukraine 3. Hryhorii Fesenko, Volodymyr Dahl East Ukrainian National University Kyiv, Ukraine 4. Gennadii Golovko, National University “Yuri Kondratyuk Poltava Polytechnic”, Ukraine 5. Olekcii Liashenko, Kharkiv National University of Radio Electronics, Ukraine 6. Vitalii Tkachov, Kharkiv National University of Radio Electronics, Ukraine **Video monitoring as a constituent in the information and communication management of construction projects**

ID 415	1. Galyna Fesenko, O.M.Beketov National University of Urban Economy in Kharkiv, Ukraine 2. Igor Ruban, Kharkiv National University of Radio Electronics, Ukraine 3. Tetiana Fesenko, Kharkiv National University of Radio Electronics, Ukraine 4.Anna Avdiushchenko, Jagiellonian University, Poland 5.Hryhorii Fesenko, Volodymyr Dahl East Ukrainian National University, Ukrain **Digital Government Transformation: Evaluating the Case of the Eastern Partnership Countries**
ID 430	1. Yerkhan Talmurzin, Almaty University of Power Engineering and Telecommunications, Kazakhstan 2. Gulmira Bazil, Almaty University of Power Engineering and Telecommunications, Kazakhstan 3. Akerke Absatarova,, Almaty University of Power Engineering and Telecommunications, Kazakhstan **Research and development of automatic control system for biological water purification**
ID 432	1. Marzhan Idrissova, Astana IT University, Kazakhstan 2. Leila Rzayeva, Astana IT University, Kazakhstan 3. Sabina Kim, Astana IT University, Kazakhstan 4. Bauyrzhan Faizulayev, Astana IT University, Kazakhstan **Profiling User Behavior Through Analysis of Browser Logs: A Case Study**
19:00	**Culture program**
14:30 16:00	**SECTION 3. Emerging Trends and Technologies in IT Application**
ID 205	1. Olena Gorda, Kyiv National University of Construction and Architecture, Ukraine 2. Yuliia Riabchun, Kyiv National University of Construction and Architecture, Ukraine 3. Roman Mazurenko, Kyiv National University of Construction and Architecture, Ukraine 4. Volodymyr Khrolenko, Kyiv National University of Construction and Architecture, Ukraine **Ontology-based Analysis of Neuralstem Learning Based on Data Integration**
ID 230	1. Mohamed Najmus Saqhib, Don Bosco Institute of Technology, India 2. Lakshmikanth S., Acharya Institute of Technology Bengaluru, India **Enhancing AODV Routing with Machine Learning for Intelligent IoT Path Selection**
ID 239	1.Oleksandr Mitsa, Uzhhorod National University, Uzhhorod, Ukraine 2.Andrii Shapochka, Uzhhorod National University, Uzhhorod, Ukraine 3.Ihor Shapochka, Uzhhorod National University, Uzhhorod, Ukraine 4.Serhii Vapnichnyi, Uzhhorod National University, Uzhhorod, Ukraine 5.Nataliia Shumylo, Uzhhorod National University, Uzhhorod, Ukraine **On Computer Modeling of Quadratic Surface Intersections**
ID 241	1. Aldina Alkenova, Astana IT University, Kazakhstan 2. Zhanar Oralbekova, Astana IT University, Kazakhstan **Biometric Authentication Model Based on Palm Veins**
ID 266	1. Malike Kazhimanova, Military research center National Defense University of the Republic of Kazakhstan, Kazakhstan 2. Muhammad Kazim, School of Computer Science and Informatics De Montfort University Leicester, UK 3. Akzhibek Amirova, Astana IT University, Kazakhstan

	Simulation of Attacks Against Dynamic Host Configuration Protocol
ID 271	1. Dinmukhamed Kazangap, Nazarbayev University, Kazakhstan 2. Kadyrali Kazhimurat, S. Toraighyrov Pavlodar State University, Kazakhstan 3. Mirgali Akhmetov, S. Toraighyrov Pavlodar State University, Kazakhstan 4. Bekzhan Amanbayev, Astana IT University, Kazakhstan 5. Muhammad Taha, Nazarbayev University, Pakistan **Prototype Implementation of a Fingerprint Scanner with Prospects for Blockchain and LoRaWAN Integration**
ID 274	1. Sergey Bushuyev, Kyiv National University of Construction and Architecture, Ukraine 2. Natalia Bushuyeva, Kyiv National University of Construction and Architecture, Ukraine 3. Denis Bushuiev, Kyiv National University of Construction and Architecture, Ukraine 4. Victoria Bushuieva, Kyiv National University of Construction and Architecture, Ukraine **Thinking Mechanism in Multimodal AI Models based on the TRIZ principles**
ID 277	1. Ospanov Almas, L.N. Gumilev Eurasian National University, Astana, Kazakhstan 2. Atanov Sabyrzhan, L.N. Gumilev Eurasian National University, Astana, Kazakhstan 3. Zhumadillayeva Ainur. L.N. Gumilev Eurasian National University, Astana, Kazakhstan **IoT and Machine Learning Driven Intelligent Warehouse Monitoring: An Expanded Case Study**
ID 284	1. Marzhan Kussainova, S.Seifullin Kazakh Agro Technical Research University, Kazakhstan 2. Asset Akhmadiya, S.Seifullin Kazakh Agro Technical Research University, Kazakhstan 3. Zhanat Toleubekova, S.Seifullin Kazakh Agro Technical Research University, Kazakhstan 4. Kanshaim Nurmukhanova, S.Seifullin Kazakh Agro Technical Research University, Kazakhstan 5. Aigerim Kismanova, S.Seifullin Kazakh Agro Technical Research University, Kazakhstan 6. Bekzat Prmantayeva, L. N. Gumilyov Eurasian National University, Kazakhstan **Use of remote sensing data and histogram intersection method to create a flood map**
ID 289	1. Aruzhan Mektepbayeva, Astana IT University, Kazakhstan 2. Diar Begisbayev, Astana IT University, Kazakhstan 3. Ramazan Seiitbek, Astana IT University, Kazakhstan 4. Ainur Jumagaliyeva, Department of Information Technologies Kazakh University of Technology and Business named after K. Kulazhanov, Kazakhstan 5. Venera Rystygulova, Kazakh University of Technology and Business named after K. Kulazhanov, Kazakhstan 6. Aliya Koxegen, Kazakh Agro-Technical Research University named after S. Seifullin Kazakhstan 7. **Adaptive machine learning algorithms for data processing in transportation systems**
16:00	**Coffee break**
16:20 18:00	**SECTION 3. Emerging Trends and Technologies in IT Application**

ID 307	1. Stephen J. Hall Middlesex University London, United Kingdom 2. Serengul Smith, Middlesex University London, United Kingdom 3. Can Başkent, Middlesex University London, United Kingdom 4. Clifford De Raffaele, Middlesex University London, United Kingdom **Cloistered Knowledge Capture and Retrieval: Offline LLMs and Vector Search for Enterprise**
ID 314	1. Mykhailo Tsebak, Lviv Polytechnic National University, Ukraine 2. Andrii Biloshchytskyi, Astana IT University, Kazakhstan **Enhancing the Efficiency of Secret Detection in Version Control Systems Using Machine Learning Methods**
ID 323	1. Oleksandr Mitsa, Uzhhorod National University Uzhhorod, Ukraine 2. Oleg Ryaboshchuk, Uzhhorod National University Uzhhorod, Ukraine 3. Volodymyr Mitsa, Uzhhorod National University Uzhhorod, Ukraine 4. Jozsef Holovacs, Ferenc Rákóczi II Transcarpathian Hungarian Institute Berehove, Ukraine 5. Oleksandr Levchuk, Uzhhorod National University Uzhhorod, Ukraine 6. Vasyl Petsko, Uzhhorod National University Uzhhorod, Ukraine **Impact of Interface Inhomogeneities on Spectral Characteristics of Optical Filters: Web-Based Modeling Platform**
ID 365	1. Bauyrzhan Berlikozha, SDU University Kaskelen, Kazakhstan 2. Azamat Serek, Kazakh-British Technical University, Kazakhstan 3. Nurshapagat Shapay, SDU University Kaskelen, Kazakhstan 4. Tamara Zhukabayeva, L.N. Gumilyov Eurasian National University, Kazakhstan 5. Muhammad Shoaib, Universidad de Santiago de Chile Santiago, Chile 6. Daniyar Nurlanov, SDU University, Kazakhstan **Intelligent Career Path Recommendations: Leveraging Blockchain and Machine Learning**
ID 366	1. Serhii Dolhopolov, Kyiv National University of Construction and Architecture, Ukraine 2. Vladyslav Hots, Kyiv National University of Construction and Architecture, Ukraine 3. Olena Fedusenko, Taras Shevchenko National University of Kyiv, Ukraine 4. Anatolii Fesan, Kyiv National University of Construction and Architecture, Ukraine **Sensor-Aware Graph Convolutional and LSTM Model for Reliable Water Quality Forecasting**
ID 373	1. Yuliia Riabchun, Kyiv National University of Construction and Architecture, Ukraine 2. Kurinsky Oleg, Kyiv National University of Construction and Architecture, Ukraine 3. Dmytro Palamarchuk, Kyiv National University of Construction and Architecture, Ukraine 4. Yaroslav Bardin, Kyiv National University of Construction and Architecture, Ukraine 5. Oleksii Yashchenko, Ivano-Frankivsk National Technical University of Oil and Gas, Ukraine 6. Elena Dolya, Kyiv National University of Construction and Architecture, Ukraine **Optimization and adaptation of neural networks based on existing architectures**
ID 384	1. Oleksii Matsiievskyi, Kyiv National University of Construction and Architecture, Kyiv, Ukraine

	2. Roman Mazurenko, Kyiv National University of Construction and Architecture, Kyiv, Ukraine 3. Andrii Netreba, Taras Shevchenko National University of Kyiv, Ukraine 4. Viktor Sapaiev, Taras Shevchenko National University of Kyiv, Kyiv, Ukraine **Application of Neural Networks to Optimize Distributed Computing in Cloud and Edge Environments**
ID 388	1. Omirserik Kablanbek, Astana IT University, Kazakhstan 2. Aigul Adamova, Astana IT University, Kazakhstan **Evaluating Machine Learning Models for Greenhouse Temperature Prediction**
ID 401	1. Binara Imankulova, International information Technology University, Kazakhstan **Privacy Challenges in Environmental IoT Systems: A Case Study on Air Quality Monitoring**
ID 417	1. Igor Em, Kazakh-British Technical University, Kazakhstan 2. Nuray Toganas, Kazakh-British Technical University, Kazakhstan 3. Pakizar Shamoi, Kazakh-British Technical University, Kazakhstan **Emotion Classification in Digital Art using Color Features and Machine Learning**
ID 418	1. Nargiz Maligazhdarova, Kazakh-British Technical University, Kazakhstan 2. Avinash BM, Kazakh-British Technical University, Kazakhstan 3. Assel Mukasheva, Kazakh-British Technical University, Kazakhstan 4. Didar Yedilkhan, Astana IT University, Kazakhstan 5. Aidos Askhatuly, Al-Farabi Kazakh National Univeristy, Kazakhstan 6. Azamat Berdyshev, International Information Technology University, Kazakhstan **A Comparative Study of Machine Learning and Large Language Models for SQL and NoSQL Injection Vulnerability Detection**
19:00	**Culture program**
14:30 16:00	**SECTION 4. Data Science and Advanced Analytics**
ID 161	1. Javed Hossain, Nanjing University of Information Science and Technology, China 2. Peilan Xu, Nanjing University of Information Science and Technology, China **Image Captioning with PSO-Optimized ResNeXt and Custom Transformer Architecture**
ID 166	1. Adeliya Bekturova, Kazakh-British Technical University, Kazakhstan 2. Alibek Bissembayev, Kazakh-British Technical University, Kazakhstan 3. Assel Mukasheva, Kazakh-British Technical University, Kazakhstan 2. **MRI Brain tumor classification: application of various data augmentation techniques on ResNet50**
ID 167	1. Sayed Masuk Ahmed, Nanjing University of Information Science and Technology, China 2. Javed Hossain, Nanjing University of Information Science and Technology, China **U-Net Assisted Farmland Detection with Convolutional Block Attention Module**
ID 173	1. Olga Solovei, Kyiv National University of Construction and Architecture, Ukraine 2. Tetyana Honcharenko, Kyiv National University of Construction and Architecture, Ukraine 3. Bohdan Solovei, Kyiv National University of Construction and Architecture, Ukraine **A Discrete Bayesian Network Model for Diagnosing Latency Growth in Apache Kafka Cluster within Information Systems for Building Construction Projects**
ID 176	1.Andrii Onyshchenko, Taras Shevchenko National University of Kyiv, Ukraine 2.Olena Lytvyn, Taras Shevchenko National University of Kyiv, Ukraine

	3.Oleksandr Dykyi, Taras Shevchenko National University of Kyiv, Ukraine 4.Lyubomyr Shved, Lviv Polytechnic National University, Ukraine 5.Olena Motuzka, National Academy of Statistics, Accounting and Audit, Ukraine **Modeling of Dynamic Market Equilibrium in the Context of Greenhouse Gas Emission Restrictions**
ID 184	1. Abdelkader BERROUACHEDI, University of Paris VIII, France 2. Rakia JAZIRI, University of Paris VIII, France 3. Gilles BERNARD, University of Paris VIII, France **Driver Behavior Profiling: Clustering Techniques for Enhanced Road Safety and Personalized Mobility**
ID 194	1. Nur Amantay, SDU University, Kazakhstan 2. Khaled Mohamad, SDU University, Kazakhstan **Deep Learning Based Apple Detection: A Comparative Analysis of CNN Architectures**
ID 204	1.Dinara Kaibassova, Astana IT University, Kazakhstan 2.Daniyal Ganiuly, Astana IT University, Kazakhstan 3.Elmira Seipisheva, Abylkas Saginov Karaganda Technical University, Kazakhstan **Keyword Extraction for Educational Content Generation Using NLP Algorithms**
ID 212	1. Rostyslav Lisnevskyi, International Information Technology University, KZ 2. Tetiana Babenko, International Information Technology University, Kazakhstan 3. Nessibeli Askarbekova, International Information Technology University, KZ 4. Galymzada Alin, International Information Technology University, Kazakhstan 5. Vitalii Lisnevskyi, Astana IT University, Kazakhstan 6. Danyliuk Ihor, National Defence University of Ukraine, Ukraine **Using Kali Linux as a Method of Defense Against Attacks**
ID 220	1.Saltanat Imangaliyeva, Astana IT University, Kazakhstan 2.Timur Imankulov, Al-Farabi Kazakh National University, Kazakhstan 3.Nurdaulet Tasmurzayev, Al-Farabi Kazakh National University, Kazakhstan **IoT-Based Smart HVAC Control: Enhancing Energy Efficiency with AI**
ID 228	1.Satwik, Indian Institute of Technology Delhi, India 2.Aneeket Yadav, Indian Institute of Technology Delhi, India 3.Rahul Garg, Institute of Technology Delhi, India 4.Ravishankar Rao, Fairleigh Dickinson University, USA Indian **Utilizing Machine Learning to Improve Healthcare Cost Prediction on Large Public Datasets**
16:00	**Coffee break**
16:20 18:00	**SECTION 4. Data Science and Advanced Analytics**
ID 253	1.Zhenis Otarbay, Astana IT University, Nazarbayev University, Kazakhstan 2.Abzal Kyzyrkanov, Astana IT University, Kazakhstan 3.Nazira Tursynova, L. N. Gumilyov Eurasian National University, Kazakhstan 4.Almaz Turginbekov, Astana IT University, Kazakhstan 5.Zauresh Ersultanova, A.Baitursynuly Kostanay Regional University, Kazakhstan 6.Kamshat Asmaganbetova, Astana IT University, Kazakhstan **Improving Electroencephalography-Based Emotion Recognition via Transformer Networks for Subject-Independent Classification**
ID 258	1.Magzhan Aliaskar, International Engineering and Technology University, Kazakhstan 2.Talgat Mazakov, Al-Farabi Kazakh National University, Kazakhstan 3.Aigerim Mazakova, Al-Farabi Kazakh National University, Kazakhstan 4.Sholpan Jomartova, Al-Farabi Kazakh National University, Kazakhstan

	5.Nurdaulet Issimov, International Engineering and Technology University, Kazakhstan 6.Akerke Dossanalyieva, Almaty Technological University, Kazakhstan **Application of the Hidden Periodicity Detection Algorithm in Hydrogeology, Geophysics and Voice Recognition**
ID 261	1.Aruzhan Burambekova, Kazakh-British Technical University, Kazakhstan 2.Pakizar Shamoi, Kazakh-British Technical University, Kazakhstan **Comparative Analysis of Color Models for Human Perception and Visual Color Difference**
ID 272	1.Dias Ilyas, Astana IT University, Kazakhstan 2.Aigul Mimenbayeva, Astana IT University, Kazakhstan 3.Almagul Kadirbayeva, M. Auezov South Kazakhstan University, Kazakhstan **Neural Network with Fine-Tuned BERT for IELTS Writing Evaluation**
ID 273	1.Ertuğrul Sert, Ankara University, Türkiye 2.Bera Küçükkurt, Ankara University, Türkiye 3.Atalay Bektaş, Ankara University, Türkiye 5.Umut Baran Ekinci, Turkish Aerospace Inc., Istanbul Technical University, Türkiye. Fatih Ekinci, Ankara University, Türkiye 6.Koray Açıcı, Ankara University, Türkiye **Enchancing SOC Estimation Hybrid RNN Models for Li-Ion Batteries Under Various Temperatures**
ID 283	1.Sultan Aubakirov, Astana IT University, Kazakhstan 2.Aisultan Tabuldin, Astana IT University, Kazakhstan 3.Rulan Alimkhan, Astana IT University, Kazakhstan 4.Zhanar Oralbekova, Astana IT University, Kazakhstan **Development of News Sentiment Analysis Model for Kazakhstan Stock Market**
ID 288	1.Soltan Gulzhan, Astana IT University, Kazakhstan 2.Yernar Kairbayev, Astana IT University, Kazakhstan **Application of a Hybrid Deep Learning Architecture for Analysing Wheat Diseases**
ID 295	1.Olena Vartsaba, Uzhhorod National University, Ukraine 2.Ihor Mych, Uzhhorod National University, Ukraine 3.Volodymyr Nikolenko, Uzhhorod National University, Ukraine 4.Nikita Kohut, Uzhhorod National University, Ukraine 5.Oleksandr Kuchanskyi, Astana IT University, Kazakhstan **On Some Approaches to Solving the Dedekind Problem**
ID 296	1.Madina Junussova, L.N. Gumilyov Eurasian National University, Kazakhstan 2.Balgaisha Mukanova, Astana IT University, Kazakhstan 3.Dilyara Rakisheva, L.N. Gumilyov Eurasian National University, Kazakhstan **Application of Machine Learning Methods to Analyze Changes in Water Bodies Based on Satellite Images over the Past 20 Years**
ID 300	1.Azhar Tursynova, Al-Farabi Kazakh National University, Kazakhstan 2.Batyrkhan Omarov, Al-Farabi Kazakh National University, Kazakhstan **Application of Vision Transformer for Brain Stroke Classification Based on CT Images**
ID 302	1.Zeinel Momynkulov, International Information Technology University, KZ 2.Azhar Tursynova, International Information Technology University, Kazakhstan **Generating an Optimal Trajectory using DDPG**
19:00	**Culture program**

SECTION PRESENTATIONS
16 May 2025 (Friday)
(Time zone UTC+5 Astana time)

Section 1 https://us06web.zoom.us/j/87008454076?pwd=OiDHVflpYuiDsk0c75ksb40BW5DFvA.1
Section 2 https://us06web.zoom.us/j/89152564332?pwd=baasHP1LaLOocsX6Lapb6TogaZ4Hse.1
Section 3 https://us06web.zoom.us/j/87614378822?pwd=eGrjrGlD4nNNSenGTuEQgUvk9kiD0D.1
Section 4 https://us06web.zoom.us/j/82504953694?pwd=s9240owQmknauM8CtjkGNW03nJY4a6.1
Workshop https://us06web.zoom.us/j/87427547101?pwd=92wGti8jnGVejZxMXkmfhVXH3lyKYV.1
Conference closing https://us06web.zoom.us/j/86161247707?pwd=1DdfZb5Aa3qwoStleZPIFaep7URaLj.1

09:00	**Participants registration**
09:30	**Welcome coffee**
10:00	**Section presentations**
10:00 **13:00**	**SECTION 4. Data Science and Advanced Analytics**
ID 305	1. Vladyslav Kotsovsky, Uzhhorod National University, Ukraine 2. Vitalii Lazoryshynets, Uzhhorod National University, Ukraine 3. Tetiana Lisovska, Uzhhorod National University, Ukraine **Smoothed Multithreshold Activation Functions in the Learning of Neural Networks**
ID 308	1. Marya Ryspayeva, A. Baitursynov Kostanay Regional University, Kazakhstan 2. Olga Salykova, A. Baitursynov Kostanay Regional University, Kazakhstan **Effect of Data Balancing Methods on MRI Alzheimer's Classification**
ID 310	1. Marat Nurtas, International Information Technology University, Kazakhstan 2. Ayazhan Kumarkhanova, Kazakh-British Technical University, Kazakhstan 3. Takhmina Nessipbay, Nazarbayev University, Kazakhstan **Deep Learning-Based Earthquake Magnitude Estimation Using Seismic Waveform Images**
ID 332	1.Aidana Zhalgas, Astana IT University, Kazakhstan 2.Beshli-Ogly Akbar, Astana IT University, Kazakhstan 3.Islam-bek Kurakbay, Astana IT University, Kazakhstan 4.Alikhan Mukhatov, Astana IT University, Kazakhstan **Detection, Segmentation and Classification of Tooth Cavities based on Medical Records**
ID 333	1.Akmira Sagatbek, Kazakh-British Technical University, Kazakhstan 2.Amina Seidakhmetova, Kazakh-British Technical University, Kazakhstan 3.Pakizar Shamoi, Kazakh-British Technical University, Kazakhstan **Comparative Analysis of Clustering Algorithms for Human-Consistent Dominant Color Extraction**
ID 334	1.Marat Nurtas, International Information Technology University, Kazakhstan 2. Alexander Fremd, National Scientific Center for Seismological Observations and Research, Kazakhstan 3.Bekzat Bukhatov, International University of Information Technology, Kazakhstan **Comparative Analysis of Deep Learning Architectures for Mineral Deposit Segmentation Using Multi-Modal Geophysical Data**
ID 340	1.Shirali Kadyrov, New Uzbekistan University, Uzbekistan 2.Ardak Kashkynbayev, Nazarbayev University, Kazakhstan 3.Yershat Sapazhanov, Narxoz University, Kazakhstan

	4. Farid Bozorgnia, New Uzbekistan University, Uzbekistan **Reinforcement Learning for PID Fine-Tuning in Nonlinear Temperature Control Systems**
ID 349	1. Nurlan Abzalbekov, Astana IT University, Kazakhstan 2. Nurkhat Zhakiyev, Astana IT University, Kazakhstan 3. Zarina Kutpanova, Astana IT University, Kazakhstan 4. Nuraiym Kuandyk, Astana IT University, Kazakhstan **A Convolutional Kolmogorov-Arnold Network Approach for Robust Lung Cancer Classification**
ID 357	1. Zhadyra Yerkin, Al-Farabi Kazakh National University, Kazakhstan 2. Madina Suleimenova, International Information Technology University, KZ 3. Madina Mansurova, Al-Farabi Kazakh National University, Kazakhstan **Prediction and analysis of cardiovascular diseases based on ECG images using computer vision algorithms**
ID 364	1. Zhanbai Uzdenbayev, Zhetysu University, Kazakhstan 2. Ruslan Omirgaliyev, Astana IT University, Kazakhstan 3. Dana Amangeldina, Astana IT University, Kazakhstan 4. Riza Akhitova, Astana IT University, Kazakhstan 5. Shynar Yelezhanova, K. Dosmukhamedov Atyrau University, Kazakhstan 6. Islam Omirzak, Astana IT University, Kazakhstan **Predicting Clothing Compatability Using Siamese NN and DenseNet**
ID 391	1. Arailym Tleubayeva, Astana IT University, Kazakhstan 2. Sultan Aubakirov, Astana IT University, Kazakhstan 3. Aisultan Tabuldin, Astana IT University, Kazakhstan 4. Aday Shomanov, Nazarbayev University, Kazakhstan **Development and Evaluation of a Small Kazakh Language Corpus to Improve the Efficiency of Multilingual NLP Systems in Low-Resource Environments**
ID 404	1. Ibrahim Aliyev, ADA University, Azerbaijan 2. Gultaj Muradova, ADA University, Azerbaijan 3. Sevda Aliyeva, ADA University, Azerbaijan 4. Sama Mustafazada, ADA University, Azerbaijan 5. Zhusup Smambayev, Kazakh-British Technical University, Kazakhstan 6. Pakizar Shamoi, Kazakh-British Technical University, Kazakhstan **Public Perception of Feminism using Sentiment and Emotion Analysis**
ID 405	1. Daniyar Khamza, Astana IT University, Kazakhstan 2. Oleksandr Kuchanskyi, Astana IT University, Kazakhstan 3. Svitlana Biloshchytska, Astana IT University, Kazakhstan 4. Dmitriy Son, Astana IT University, Kazakhstan **Models and Forecasting Methods for Precision Irrigation Management Using Space Monitoring Data**
ID 423	1. Azat Aldeshev, Kazakh-British Technical University, Kazakhstan 2. Sanzhar Seitbekov, Kazakh-British Technical University, Kazakhstan 3. Amandyk Kartbayev, Kazakh-British Technical University, Kazakhstan 4. Parasat Tynysbekov, Kazakh-British Technical University, Kazakhstan 5. Olzhas Dairov, Kazakh-British Technical University, Kazakhstan 6. Nurzhan Momynkul, Kazakh-British Technical University, Kazakhstan **Harmonizing Emotions and Music with Fuzzy Intelligence for Personalized Recommendations**