Astana IT University

Kazakh National University of Sports

International IT University

NNEF Public Foundation

Nursultan Nazarbaev Qory

IEEE Kazakhstan Section

IEEE Ukraine Section

IEEE

Ministry of Artificial Intelligence and Digital Development of the Republic of Kazakhstan

Ministry of Science and Higher Education of the Republic of Kazakhstan

# IEEE SIST 2026

## 2026 IEEE 6th International Conference on Smart Information Systems and Technologies

**13-15 MAY 2026**

## Astana, Kazakhstan

**CONFERENCE PROGRAM**

sist.astanait.edu.kz

**2026 IEEE 6th International Conference on**
**Smart Information Systems and Technologies (SIST)**
**May 13 – 15, 2026**
**Astana IT University**

## HONORARY COMMITTEE

**Zhaslan Madiyev, Deputy Prime Minister – Minister of Artificial Intelligence and Digital Development of the Republic of Kazakhstan**

**Sayasat Nurbek, Minister of Science and Higher Education of the Republic of Kazakhstan**

**Svetlana Murzabekova, Director of the «NNEF» Public Foundation, *Kazakhstan***

**Altair Akhmetov, Chairman of the Board - Rector of Astana IT University, Kazakhstan**

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**Andrejs Romanovs, IEEE Region 8 Vitality Coordinator, Professor, Riga Technical University, Latvia**

**Didar Yedilkhan, IEEE Kazakhstan Section Chair, Head of the Smart City Research Center, Astana IT University, Kazakhstan**

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## CONFERENCE CHAIR

**Andrii Biloshchytskyi, Vice-Rector for Science and Innovation, Astana IT University, Kazakhstan**

## TECHNICAL PROGRAMM COMMITTEE CHAIR

**Oleksandr Kuchanskyi, Professor of the School of Artificial Intelligence and Data Science, Astana IT University, Kazakhstan**

**2026 IEEE 6th International Conference on Smart Information Systems and Technologies (SIST)**
**May 13-15, 2026**
**Astana, Kazakhstan**

## CONFERENCE PROGRAM

| Time | Event | Venue |
|---|---|---|
| **13 May (Wednesday)** | | |
| **09:00 – 09:30** | Participants registration | Offline / Online |
| **09:30 – 10:00** | Welcome Coffee | Near the Assembly Hall |
| **10:00 –13:00** | Opening Ceremony,<br>Panel and Plenary sessions | Offline / Online, Assembly Hall |
| **13:00 – 14:00** | Lunch Break | |
| **14:10– 16:00** | Technical Sessions | Lecture Rooms |
| **16:00 – 16:20** | Coffee Break | Near the Assembly Hall |
| **16:20 - 18:00** | Technical Sessions | Lecture Rooms |
| **19:00** | Dinner | |
| **14 May (Thursday)** | | |
| **09:00 – 09:30** | Participants registration | Offline / Online |
| **09:30 – 10:00** | Welcome Coffee | Near the Assembly Hall |
| **10:00 – 13:00** | Panel and Plenary sessions | Offline / Online, Assembly Hall |
| **13:00 – 14:00** | Lunch Break | |
| **14:10 – 16:00** | Technical Sessions | Lecture Rooms |
| **16:00 – 16:20** | Coffee Break | Near the Assembly Hall |
| **16:20 – 18:00** | Technical Sessions | Lecture Rooms |
| **19:00** | Cultural Program | |
| **15 May (Friday)** | | |
| **09:30 – 10:00** | Welcome Coffee | Near the Assembly Hall |
| **10:00 – 13:00** | Technical Sessions | Lecture Rooms |
| **13:00 – 14:30** | Lunch Break | |
| **14:30 – 16:00** | Technical Sessions | Lecture Rooms |
| **16:00 – 16:20** | Coffee Break | Near the Assembly Hall |
| **16:20 – 18:00** | Technical Sessions | Lecture Rooms |
| **18:00** | Closing Ceremony | Online |
| **19:00** | City Tour (optional) | |

# PLENARY AND PANEL SESSIONS
## 13 May 2026 (Wednesday)
**(Time zone UTC+5, Astana time)**

**Venue: Assembly Hall, Astana IT University**
**Online: Zoom session**
**https://us06web.zoom.us/j/82595006161?pwd=2LZcDuUyfxpwO1dRr0WePKuCbakxRa.1**

| | |
|---|---|
| **09:00** | **Participants registration** |
| **09:30** | **Welcome coffee** |
| **10:00-11.00** | **Opening Ceremony** |
| **10:00** | ***Altair Akhmetov**, Chairman of the Board - Rector of Astana IT University (Astana, Kazakhstan)* |
| **10:05** | ***Zhaslan Madiyev**, Deputy Prime Minister – Minister of Artificial Intelligence and Digital Development of the Republic of Kazakhstan (Astana, Kazakhstan) (TBC)* |
| **10:10** | ***Sayasat Nurbek**, Minister of Science and Higher Education of the Republic of Kazakhstan (Astana, Kazakhstan) (TBC)* |
| **10:15** | ***Dusanka Boskovic**, Minister of Science, High Education and Youth of the Government of Sarajevo Canton, Full Professor of University of Sarajevo, IEEE Region 8 Director (Sarajevo, Bosnia and Herzegovina)* |
| **10:25** | ***Andrejs Romanovs**, Professor of Riga Technical University, IEEE R8 PEAC Chair (Riga, Latvia)* |
| **10:35** | ***Andrii Biloshchytskyi,** Professor, Vice-Rector for Science and Innovation Astana IT University (Astana, Kazakhstan)* |
| **10:40** | ***Didar Yedilkhan**, Professor, Head of the Smart City research center Astana IT University, IEEE Kazakhstan Section Chair (Astana, Kazakhstan)* |
| **10:50** | ***Signing of a memorandum between IEEE Kazakhstan Section and IEEE Ukraine Section** (Didar Yedilkhan, Head of the Smart City research center Astana IT University and Iryna Ivasenko, Karpenko Physico-Mechanical Institute of the National Academy of Sciences of Ukraine, Lviv, Ukraine)* |
| **11:00-12:00** | ***Panel session*** |
| **11:00** | *Topic: **Scaling Intelligence: Bridging Innovation and Execution in a Globally AI-Driven Economy***<br>1. ***Amir Mosavi**, PhD, Obuda University (Budapest, Hungary), J.Selye University (Komárno, Slovakia)*<br>2. ***Mohamed Elhoseny**, PhD, Associate Professor at the University of Sharjah (Sharjah, United Arab Emirates)*<br>3. ***Andreas Pester,** Professor, British University in Egypt (Cairo, Egypt)*<br>4. ***Abraham Althonayan**, Professor, Brunel University London (London, United Kingdom)*<br>5. ***Marat Nurtas**, Associate Professor, International Information Technology University, (Almaty, Kazakhstan)*<br>*Moderator: **Beibit Abdikenov**, Assistant Professor, Director of the Scientific Innovation Center for Artificial Intelligence, Astana IT University (Astana, Kazakhstan)* |
| **12:00-13:00** | ***Plenary session*** |
| **12:00** | ***Carsten Wolff**, Professor, Dortmund University of Applied Sciences and Arts (Dortmund, Germany)* |
| **12:20** | ***Syed Islam,** Distinguished Professor, Federation University Australia (Ballarat, Australia)* |
| **12:40** | ***Mohammad Shojafar,** Associate Professor in Network Security, University of Surrey (Surrey, United Kingdom)* |
| **13:00** | **Lunch Break** |
| **14:10-16:00** | **Technical Sessions** |
| **16:00-16:20** | **Coffee Break** |
| **16:20-18:00** | **Technical Sessions** |
| **19:00** | **Dinner** |

# PLENARY AND PANEL SESSIONS

**14 May 2026 (Thursday)**

**Venue: Assembly Hall, Astana IT University**
**Online: Zoom session**
**https://us06web.zoom.us/j/89332086817?pwd=SOE20acZlyIsbrrRGU4jbbyyGLUdiq.1**

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|---|---|
| **09:00** | **Participants registration** |
| **09:30** | **Welcome coffee** |
| **10:00** | ***Andrii Biloshchytskyi,*** *Professor, Vice-Rector for Science and Innovation Astana IT University (Astana, Kazakhstan)* |
| **10:05** | ***Damir Seissembekov****, Chairman of the Telecommunications Committee of the Ministry of Artificial Intelligence and Digital Development of the Republic of Kazakhstan (Astana, Kazakhstan)* |
| **10:10-11:00** | **Panel session #1** |
| **10:10** | *Topic:* ***Shaping the Digital Future: The Transformational Impact of AI and Next-Generation Connectivity***<br>*1.* ***Mohammad Shojafar,*** *Associate Professor in Network Security, University of Surrey (Surrey, United Kingdom)*<br>*2.* ***De Mi,*** *Associate Professor in Future Communication Systems, Head of the Future Information Networks, Birmingham City University (Birmingham, United Kingdom)*<br>*3.* ***Ibraheem Shayea*** *– Professor, Associate Researcher at Istanbul Technical University (Istanbul, Turkiye)*<br>*4.* ***Yuxiao Qin****, Professor, Northwestern Polytechnical University (Xi'an, China)*<br>*5.* ***Faisal Saeed,*** *PhD, Associate Professor, Birmingham City University (Birmingham, United Kingdom)*<br>*Moderator:* ***Akhmet Tussupov*** *Professor, School of Cybersecurity, (Astana, Kazakhstan)* |
| **11:00-12:00** | **Panel session #2** |
| | *Topic:* **AI and Digitalization Across Industries: Unlocking Value Through Diverse Applications and Use Cases**<br>*1.* ***Ignacio Sanjuán Moltó*** *– Professor, Institute of Advanced Materials (INAM) at University Jaume I (Castelló de la Plana, Spain)*<br>*2.* ***Nhiem Lu*** *- Professor for Computer Science and Digitalization, University of Applied Sciences and Arts Dortmund (Dortmund, Germany)*<br>*3.* ***Korhan Kayışlı,*** *PhD, Professor, Gazi University (Ankara, Turkiye)*<br>*4.* ***Irina Ivasenko*** *– IEEE Ukraine Section Past Chair, Professor, Karpenko Physico-Mechanical Institute of the National Academy of Sciences of Ukraine (Lviv, Ukraine)*<br>*5.* ***Galia Zamaratskaia,*** *PhD, Associate Professor at Sweden Agricultural University (Uppsala, Sweden)*<br>*Moderator:* ***Baurzhan Ilyassov,*** *Director of the School of Intelligent Systems, Astana IT University (Astana, Kazakhstan)* |
| **12:00-13:00** | **Panel session #3** |
| | *Topic:* **AI and Cybersecurity as a Foundation of the Digital Economy: Securing Trust in an Interconnected World**<br>*1.* ***Syed Islam,*** *Distinguished Professor, Federation University Australia (Ballarat, Australia)*<br>*2.* ***Carsten Wolff****, Professor, Dortmund University of Applied Sciences and Arts (Dortmund, Germany)*<br>*3.* ***Serhii Hnatiuk,*** *Professor, Vice-Rector for Research and Technology Transfer at National University "Kyiv Aviation Institute" (Kyiv, Ukraine)*<br>*4.* ***Erdal Irmak****, Professor, Gazi University (Ankara, Turkiye)*<br>*5.* ***Saule Amanzholova****, Director of the School of Cybersecurity, Astana IT University (Astana, Kazakhstan)*<br>*Moderator:* ***Leila Rzayeva,*** *Director of the Scientific Innovation Center for CyberTech, Astana IT University (Astana, Kazakhstan)* |

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| **13:00** | **Lunch Break** |
| **14:10-16:00** | **Technical Sessions** |
| **16:00-16:20** | **Coffee break** |
| **16:20-18:00** | **Technical Sessions** |
| **19:00** | **Cultural Program** |

## PLENARY AND PANEL SESSION
## 15 May 2026 (Friday)
**(Time zone UTC+5, Astana time)**

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

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|---|---|
| **09:30** | **Welcome coffee** |
| **10:00-13:00** | **Technical Sessions** |
| **13:00** | **Lunch Break** |
| **14.00-16:00** | **Technical Sessions** |
| **16:00-16:20** | **Coffee break** |
| **16:20-18:00** | **Technical Sessions** |
| **18:00** | **Plenary session: Conference results and closing** |
| **19:00** | **City tour (optional)** |

**TECHNICAL SESSIONS**
**13 May 2026 (Wednesday)**
**(Time zone UTC+5, Astana time)**

| **14:10<br>18:00** | **TECHNICAL SESSIONS** |
|---|---|
| **14:10<br>16:00** | **TRACK 1. COMPUTER SCIENCE**<br><br>**Kumar Praveen, PhD, Professor (Chair)**<br>**Didar Yedilkhan, PhD, Professor**<br>**Section Secretary –Nurbay Kairbek, Daniyar Amantayev**<br><br>**Venue C.1.2.227**<br><br>**https://us06web.zoom.us/j/89876503177?pwd=JEsoaKlmcbX9e8SQbS233v0P0vKBea.1** |
| ID 19 | 1. Zhanerke Temirbekova, Kazakh National University named after al-Farabi, Kazakhstan<br>2. Zhansaya Myrzakul, Kazakh National University named after al-Farabi, Kazakhstan<br>**A Fully Homomorphic Encryption Library over Integers with Homomorphic Division** |
| ID 37 | 1. Yurii Voloshchuk, Uzhhorod National University, Ukraine<br>2. Oleksandr Mitsa, Uzhhorod National University, Ukraine<br>**Adaptive Cascade-Based Categorization of Short Ukrainian Texts With Accuracy–Cost Optimization** |
| ID 42 | 1. Evgeniy Lavrov, Sumy State university, Ukraine<br>**Concept "Operator 5.0": Analysis the reliability of man-computer interactions in cyber-physical systems** |
| ID 58 | 1. Ayanbek Serikov, Astana IT University, Kazakhstan<br>**Course Management and AI Models in Educational Program Design** |
| ID 62 | 1. Zhanerke Baimukanova, Nazarbayev University, Kazakhstan<br>2. Alua Myrzakerimova, Astana IT University, Kazakhstan<br>3. Akbota Rakhym, Astana IT University, Kazakhstan<br>**Few-Shot Transfer Learning for Pneumonia Detection from Chest X-Ray Images** |
| ID 68 | 1. Denys Liashenko, Taras Shevchenko National University of Kyiv, Ukraine<br>2. Oleksandr Timinskyi, Taras Shevchenko National University of Kyiv, Ukraine<br>3. Artem Yurechko, Taras Shevchenko National University of Kyiv, Ukraine<br>**Adaptive Lean Model of Communication Management in Content-Oriented IT Projects** |
| ID 69 | 1. Kateryna Lavrukhina, KNUCA, Ukraine<br>2. Viktoriya Tytok , KNUCA, Ukraine<br>3. Hanna Shpakova, KNUCA, Ukraine<br>4. Serhii Petrukha , West Ukrainian National University, Ukraine<br>5. Artem Biloshchytskyi, Astana IT University, Kazakhstan<br>6. Maltsev Maksym, KNUCA, Ukraine<br>**Conceptual Approaches to Managing Innovation Activities of the Regions of Ukraine Based on the Digital Transformation Index in the Context of Economic Activity Acceleration** |
| ID 76 | 1. Sergiy Bronin, Vilnius University, Lithuania<br>2. Olha Kravchenko, Taras Shevchenko National University of Kyiv, Ukraine<br>3. Olena Sipko, Taras Shevchenko National University of Kyiv, Ukraine<br>**A method for assessing the impact of AI tools in the process of learning and teaching courses in the field of information systems and technologies** |

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| ID 78 | 1. Damilya Amangeldykyzy, Astana IT University, Kazakhstan<br>2. Yasmin Tleukhan, Astana IT University, Kazakhstan<br>3. Alua Myrzakerimova, Astana IT University, Kazakhstan<br>4. Aivar Sakhipov, Astana IT University, Kazakhstan<br>**Short-Term AQI Forecasting in Almaty: A Machine Learning Approach Leveraging Air-Quality and Meteorological Data** |
| ID 83 | 1. Noyan Tendikov, Astana IT University, Kazakhstan<br>2. Rostyslav Lisnevskyi, Astana IT University, Kazakhstan<br>3. Leila Rzayeva, Astana IT University, Kazakhstan<br>**Customizable methodology for structured analysis of software within isolated computational environments to secure critical IT infrastructures** |
| ID 90 | 1. Bayangali Abdygalym, Q University, Kazakhstan<br>2. Zhanna Sadirmekova, Astana IT University, Kazakhstan<br>3. Madina Sambetbayeva, L.N. Gumilyov Eurasian National University, Kazakhstan<br>4. Roman Taberkhan, L.N. Gumilyov Eurasian National University, Kazakhstan<br>**Universal framework for integrating new concepts into ontologies across multiple domains** |
| **16:00** | **Coffee break** |
| **16:20<br>18:00** | **TRACK 1. COMPUTER SCIENCE<br>Venue C.1.2.227** |
| ID 97 | 1. Margulan Ratkhan, Eurasian National University, Kazakhstan<br>2. Makpal Zhartybayeva, L.N. Gumilyov Eurasian National University, Kazakhstan<br>**The Role of Artificial Intelligence in Near-Earth Space Monitoring** |
| ID 107 | 1. Yerlan Tursynbek, Department of Cybersecurity, information processing and storage,Satbayev University, Kazakhstan<br>2. Nurtay Albanbay, Department of Cybersecurity,Satbayev University, Kazakhstan<br>3. Djamel Djenouri, School of Computing and Creative Technologies, University of the West of England, UK<br>4. Shahid Latif, School of Computing and Creative Technologies, University of the West of England, UK<br>5. Iliyas Samat, Department of Cybersecurity,Satbayev University, Kazakhstan<br>6. Akbota Akhankyzy, Department of Cybersecurity,Satbayev University, Kazakhstan<br>**IoTector: An Integrated Platform for Monitoring and Intelligent Attack Detection in IoT Networks** |
| ID 125 | 1. Sabina Duisaliyeva, Kazakh-British Technical University, Kazakhstan<br>2. Aliya Tursynzhanova, Kazakh-British Technical University, Kazakhstan<br>3. Perizat Omarova, Institute of Information and Computational Technologies School of Applied Mathematics, Kazakhstan<br>4. Gulaiym Bayekova, International Information Technology University, Kazakhstan<br>5. Saltanat Amirgaliyeva, Institute of Information and Computational Technologies, Kazakhstan<br>**The Impact of Architectural Design and Positioning on Urban Air Circulation and Ventilation in Residential Environments** |
| ID 126 | 1. Galina Bessonova, Kazakh-British Technical University, Kazakhstan<br>2. Aliya Tursynzhanova, Kazakh-British Technical University, Kazakhstan<br>3. Perizat Omarova, Institute of Information and Computational Technologies, School of Applied Mathematics, Kazakhstan<br>4. Aisulu Ataniyazova, Institute of Information and Computational Technologies, Kazakhstan<br>5. Ainur Kozbakova, Institute of Information and Computational Technologies, Kazakhstan<br>**INFLUENCE OF URBAN MORPHOLOGY ON AIRFLOW AND VENTILATION IN RESIDENTIAL AREAS OF ALMATY** |

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| ID 133 | 1. Yerlan Tursynbek, Department of Cybersecurity, information processing and storage, Satbayev University, Kazakhstan<br>**Lightweight Cryptography-Enhanced Federated Learning for Secure IoT Environments** |
| ID 138 | 1. Dinmukhammed Orkushpayev, International Information Technology University, Kazakhstan<br>2. Daniyar Kyzyrov, International IT University, Kazakhstan<br>3. Saya Sapakova, International Information Technology University, Kazakhstan<br>4. Artem Bykov, International Information Technology University, Kazakhstan<br>5. Askar Sapakov, M. Tynyshpaev ALT University JSC, Kazakhstan<br>6. Nurkamilya Daurenbayeva, International Information Technology University, Kazakhstan<br>**Comparative analysis of inference frameworks for the YOLOv11 model on the platform Rockchip RK3576** |
| ID 139 | 1. T. Thilagam, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, India<br>2. Sumit Ram, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, India<br>3. Sushant Karn, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, India<br>**HarmoniqMind: AI-Powered Mental Equilibrium and Relationship Optimizer** |
| ID 140 | 1. Abdul Razaque, University of Arizona, USA<br>2. Yagaliyeva Bagdat Yessenovna, Satbayev University, Kazakhstan<br>**A Bottom-Up Approach to Cybercrime Mitigation through Cyber Literacy and User-Centric Java-Based Security Assistance** |
| ID 157 | 1. Sahybay Tynymbayev, International Information Technology University, IITU, Kazakhstan<br>2. Rugui Yao, Northwestern Polytechnical University, China<br>3. Alisher Skabylov, Al-Farabi Kazakh National University, Kazakhstan<br>4. Dauren Zheksebay, Al-Farabi Kazakh National University, Kazakhstan<br>5. Symbat Mamanova, International Information Technology University, Kazakhstan<br>**A Sequential Integer Divider with Three-Bit Quotient Generation per Iteration** |
| ID 165 | 1. Tamara Radivilova, Kharkiv National University of Radio Electronics, Ukraine<br>2. Lyudmyla Kirichenko, Lodz University of Technology, Poland<br>3. Oksana Mulesa, University of Presov in Presov, Slovakia<br>4. Oksana Pichugina, National Aerospace University Kharkiv Aviation Institute, Ukraine<br>5. Ihor Dobrynin, Kharkiv National University of Radio Electronics, Ukraine<br>6. Artem Mazepa, Kharkiv National University of Radio Electronics, Ukraine<br>**Admission Controller Model Based on Reinforcement Learning for Kubernetes Security with Proven PAC Guarantees** |
| ID 166 | 1. Erasyl Meiramkhan, L. N. Gumilyov Eurasian National University, Kazakhstan<br>2. Daiana Shautova, L. N. Gumilyov Eurasian National University, Kazakhstan<br>3. Aruzhan Abayeva, L. N. Gumilyov Eurasian National University, Kazakhstan<br>4. Aitbek Aktas , L. N. Gumilyov Eurasian National University, Kazakhstan<br>**Comparison of FTK Imager, KAPE, and Autopsy Tools for Windows Artifact Analysis** |

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| **14:10<br>16:00** | **TRACK 2. TECHNOLOGY AND ENGINEERING MANAGEMENT**<br><br>**Dana Tsoy (Chair)**<br>**Section Secretary –Yerkezhan Amangozhayeva**<br><br>**Venue- C1.2.139**<br><br>**https://us06web.zoom.us/j/86775156230?pwd=LvTqWCHXSaE0vBiaeOzetxku9jcXa5.1** |
| ID 18 | 1. Almas Ospanov, Astana IT University, Kazakhstan<br>2. Pedro Alonso-Jordá, Universitat Politècnica de València, Spain<br>3. Ainur Zhumadillayeva, L.N.Gumilev Eurasian National University, Kazakhstan<br>**CloudERPBench: An Open-Source Testbed for Cost–Performance Evaluation of Cloud ERP Deployment Patterns for SMEs** |
| ID 24 | 1. Almas Ospanov, Astana IT University, Kazakhstan<br>2. Pedro Alonso-Jordá, Universitat Politècnica de València, Spain<br>3. Ainur Zhumadillayeva, L.N.Gumilyov Eurasian national university, Kazakhstan<br>**SME-ERP-X: An Integrated AI/ML–Blockchain-Style Audit Ledger–Digital Twin ERP Architecture with Financial Feasibility Analysis for SMEs** |
| ID 40 | 1. Mukhriddin Eshkulov, Jizzakh polytechnic institute, Uzbekistan<br>**Spectral and Optical Performance Optimization of Monocrystalline Semi-Transparent Photovoltaic Panels Integrated into Greenhouses** |
| ID 45 | 1. Anatolii Skurativskyi Anatolii Skurativskyi, State University "Kyiv Aviation Institute", Ukraine<br>2. Viktoriia Sydorenko, State University "Kyiv Aviation Institute", Ukraine<br>3. Artem Polozhencev, Kyiv Aviation Institute, Ukraine<br>**An Adaptive Method for Cybersecurity Requirements Management in Software Implementation** |
| ID 49 | 1. Bakytgul Manarbekkyzy, Kazakh Automobile and Road Institute, Kazakhstan<br>2. Arlan Kazhetayev, Kazakh Automobile and Road Institute named after L.B. Goncharov, Kazakhstan<br>3. Ilyas Rustemov, Kazakh Automobile and Road Institute named after L.B. Goncharov, Kazakhstan<br>4. Darkhan Yelemes, Kazakh Automobile and Road Institute named after L.B. Goncharov, Kazakhstan<br>5. Kabdullagazy Nauruzbayev, Kazakh Automobile and Road Institute named after L.B. Goncharov, Kazakhstan<br>6. Muradjon Khodjabekov, Samarkand State Architectural and Civil Engineering University, Uzbekistan<br>**Digital Analytical Model for Management of Comprehensive Utilization of Limestone Screenings in Road Construction** |
| ID 65 | 1. Bakytgul Manarbekkyzy, Kazakh Automobile and Road Institute, Kazakhstan<br>2. Darkhan Yelemes, Kazakh Automobile and Road Institute named after L.B. Goncharov, Kazakhstan<br>3. Ilyas Rustemov, Kazakh Automobile and Road Institute named after L.B. Goncharov, Kazakhstan<br>4. Kabdullagazy Nauruzbayev, Kazakh Automobile and Road Institute named after L.B. Goncharov, Kazakhstan<br>5. Arlan Kazhetayev, Kazakh Automobile and Road Institute named after L.B. Goncharov, Kazakhstan<br>6. Muradjon Khodjabekov, Samarkand State Architectural and Civil Engineering University, Uzbekistan |

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| | **Model-Based Justification of Nonlinear Operating Regimes of Vibrating Screens in Limestone Screenings Processing Lines** |
| ID 103 | 1. Andrii Onyshchenko, Taras Shevchenko National University of Kyiv, Ukraine<br>2. Olena Lytvyn, KNU, Ukraine<br>3. Oleksandr Dykyi, Taras Shevchenko National University of Kyiv, Ukraine<br>4. Halyna Kashcheieva, Private Joint Stock Company “Higher Educational Institution "Interregional Academy of Personnel Management” , Ukraine<br>5. Nataliia Hrynchak, National Academy of Statistics, Accounting and Audit, Ukraine<br>6. Olena Motuzka, National Academy of Statistics, Accounting and Audit, Ukraine<br>**ETS Models and Financial-Macroeconomic Dynamics of a Country in the Context of Sustainable Development and Climate Transition** |
| ID 104 | 1. Olena Lytvyn, Taras Shevchenko National University of Kyiv, Ukraine<br>2. Andrii Onyshchenko, Taras Shevchenko National University of Kyiv, Ukraine<br>3. Volodymyr Kudin, Taras Shevchenko National University of Kyiv, Ukraine<br>4. Nataliia Fareniuk, Taras Shevchenko National University of Kyiv, Ukraine<br>5. Lyubomyr Shved, Lviv Polytechnic National University Lviv, Ukraine<br>**Financial Dimensions of ETS Mechanisms in Advancing Sustainable Development** |
| ID 127 | 1. Madina Bazarova, D. Serikbaev EKTU, Kazakhstan<br>**An Ontological Model Of The Teacher Training Process In The Context Of Digitalization Of Education** |
| ID 137 | 1. Vadym Ziuziun, Taras Shevchenko National University of Kyiv, Ukraine<br>2. Daria Shcherbak, Taras Shevchenko National University of Kyiv, Ukraine<br>**A Service-Oriented Architecture for an Ecological Web Application Aimed at Reducing Food Waste** |
| ID 141 | 1. Adelya Begbossynova, Astana IT University, Kazakhstan<br>**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING AS STRATEGIC INSTRUMENTS OF CYBERSECURITY RISK MANAGEMENT IN DIGITAL TRANSFORMATION** |
| **16:00** | **Coffee break** |
| **16:20<br>18:00** | **TRACK 2. TECHNOLOGY AND ENGINEERING MANAGEMENT<br>Venue- C1.2.139** |
| ID 142 | 1. Aissulu Kaldarova, International Information Technology University, Kazakhstan<br>**Digital Learning Tools in Language Education: The Effectiveness of Quizlet for Vocabulary Teaching in Higher Education** |
| ID 146 | 1. Sergey Bushuyev, Kyiv National University of Construction and Architecture, Ukraine<br>2. Kateryna Kolesnikova, International IT University, Kazakhstan<br>3. Svetlana Murzabekova, Nursultan Nazarbayev Educational Foundation, Kazakhstan<br>4. Maira Khusainova, Nursultan Nazarbayev Educational Foundation, Kazakhstan<br>**AI-Augmented Sustainable Development University. IITU case.** |
| ID 147 | 1. Bushuyev Sergiy, Kyiv National University of Construction and Architecture, Ukraine<br>2. Dinara Kulibayeva, General Director of NNEF Public Foundation, Kazakhstan<br>**Adaptive Leadership in Sustainable Development of an IT University Driven by Artificial Intelligence** |
| ID 148 | 1. Sergey Bushuyev, Kyiv National University of Construction and Architecture, Ukraine<br>2. Natalia Bushuyeva, Kyiv National University of Construction and Architecture, Ukraine<br>3. Denis Bushuyev, Astana IT University, Kazakhstan<br>4. Kateryna Kolesnikova, International IT University, Kazakhstan<br>**AI-Driven Leadership - Navigating the Dualities of Efficiency and Risk** |
| ID 161 | 1. Serhii Chernov, Admiral Makarov National University of Shipbuilding<br>2. Iryna Zhuravel, Admiral Makarov National University of Shipbuilding<br>3. Liubava Chernova, Admiral Makarov National University of Shipbuilding<br>4. Liudmyla Chernova, Admiral Makarov National University of Shipbuilding<br>5. Evgeniy Trushliakov, Admiral Makarov National University of Shipbuilding<br>6. Arailym Medetbek, Astana IT University, Kazakhstan |

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| | **IT project management in the context of organizational change: a service-oriented approach and modified earned value management** |
| ID 164 | 1. Ayaulym Shaimuratova, Astana IT University, Kazakhstan<br>**Ecosystem Constraints Affecting the Commercialization of Generative AI Startups** |
| ID 167 | 1. Kamilla Yergaliyeva, IITU, Kazakhstan<br>2. Lyazat Naizabayeva, IITU, Kazakhstan<br>**Optimizing Management Control in IT Projects: A Software-Based Framework for Enhancing Oversight Efficiency Among Non-Coding Stakeholders in SMEs** |
| ID 225 | 1. Yuliia Riabchun, Kyiv National University of Construction and Architecture, Ukraine<br>2. Ihor Stuzhuk , Kyiv National University of Construction and Architecture, Ukraine<br>3. Illia Sachenko, Kyiv National University of Construction and Architecture, Ukraine<br>4. Olena Fedusenko, Taras Shevchenko National University of Kyiv, Ukraine<br>5. Yurii Naumenko, Kyiv National University of Construction and Architecture, Ukraine<br>6. Svitlana Biloshchytska, Astana IT University, Kazakhstan<br>**Adaptive Cross-Platform Architecture for Carpooling Information Systems in Mobile and Desktop Environments** |
| ID 232 | 1. Tamerlan Mendybayev, AUES University, Kazakhstan<br>2. Birlik Mendybayev, ENU, Kazakhstan<br>3. Kuralay Tuspekova, Kyrgyz Economic University, Kyrgyzstan<br>**Algorithmic Framework for Functional-Spatial Planning: Integrating Capital Assessment and GIS for Sustainable Territorial Development** |
| ID 243 | 1. Ruslan Tormosov, Astana IT University, Kazakhstan<br>2. Iurii Chupryna, Kyiv National University of Construction and Architecture, Ukraine<br>3. Innola Novykova, Kyiv National University of Construction and Architecture, Ukraine<br>4. Mykhailo Malykhin, Kyiv National University of Construction and Architecture, Ukraine<br>5. Kostiantyn Predun, Kyiv National University of Construction and Architecture, Ukraine<br>6. Nina Petrukha, Kyiv National University of Construction and Architecture, Ukraine<br>**METHODOLOGICAL SUPPORT FOR COGNITIVE–INTEGRATION MODELING OF ORGANIZATIONAL STRUCTURES IN CONSTRUCTION UNDER CONDITIONS OF DIGITAL TRANSFORMATION OF THE INDUSTRY** |
| ID 253 | 1. Oman Abyshev, Oscar & Sons: Research & Development, Kyrgyzstan<br>2. Marat Abyshev, Kyrgyz State Technical University n.a. I. Razzakov. Kyrgyzstan<br>3. Ormon Abyshev, Kyrgyz State Technical University n.a. I. Razzakov, Kyrgyzstan<br>4. Anar Zaripova, Kyrgyz National University n.a. J. Balasagyn, Kyrgyzstan<br>5. Usen Omuraliev, Kyrgyz State Technical University n.a. I. Razzakov<br>**Application of Industrial Cyber-physical Technologies and Microfactories for Discrete Production System engineering** |

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| **14:10<br>16:00** | **TRACK 3. COMMUNICATIONS**<br><br>**Saule Amanzholova, Candidate of Technical Sciences (Chair)**<br>**Laura Aldasheva, Candidate of Technical Sciences**<br>**Section Secretary - Neilya Yessentay, Syrym Sapash**<br><br>**Venue- C1.2.240**<br><br>**https://us06web.zoom.us/j/82072011833?pwd=OECbSrGB5f3o9SptvcpEUHWe7E8hL6.1** |
| **14:10<br>14:30** | **Invited Session Presentation:**<br>**- Amir Mosavi, PhD, Obuda University (Budapest, Hungary), J.Selye University (Komárno, Slovakia)** |
| ID 74 | 1. Andriy Fesenko, State University "Kyiv Aviation Institute", Ukraine<br>2. Dmytro Levkin, State University "Kyiv Aviation Institute", Ukraine<br>3. Andriy Fesenko, Kyiv Aviation Institute, Ukraine<br>**Mathematical Modeling of Security-Aware Cyber-Physical Systems Using Pseudodifferential Operators** |
| ID 151 | 1. Azamat Yerezhepbayev, Astana IT University, Kazakhstan<br>2. Aigul Adamova, Astana IT University, Kazakhstan<br>**Development of Distributed Computing Architecture for Enhancing the Security of Cyber-Physical Systems in Industrial Internet of Things** |
| ID 152 | 1. Ankitha K, Annamacharya Institute of Technology and Sciences, India<br>2. Adithya Kumar Reddy Y.B., Annamacharya Institute of Technology and Sciences, India<br>3. Akhila Y., Annamacharya Institute of Technology and Sciences, India<br>4. Avinash G., Annamacharya Institute of Technology and Sciences, India<br>5. Dhananjaya Babu K., Annamacharya Institute of Technology and Sciences, India<br>6. Suresh S., Annamacharya Institute of Technology and Sciences, India<br>**Automatic Dynamic Wireless EV Charging System** |
| ID 162 | 1. Serhii Chornous, National University of Life and Environmental Sciences of Ukraine, Ukraine<br>2. Dmytro Kasatkin, National University of Life and Environmental Sciences of Ukraine, Ukraine<br>3. Oleksii Chornous, National University of Life and Environmental Sciences of Ukraine, Ukraine<br>4. Mykola Tsiutsiura, State University of Trade and Economics, Ukraine<br>5. Svilana Tsiutsiura, State University of Trade and Economics, Ukraine<br>6. Elizaveta Zavhorodnya, State University of Trade and Economics, Ukraine<br>**Enhancing Virtualization Levels Based on Modern Server Solutions and OTN Technology, and Investigating the Interconnection Between Network Management System and Parameters of the Backbone Fiber Optic Network for Geographically Distributed Enterprises** |
| ID 204 | 1. Gulsaya Nurzhaubayeva, Astana IT University, Kazakhstan<br>**Comparative Study of Textile Based Wearable Antenna Designs for Reliable IoT Operation at 2.45 GHz** |
| ID 206 | 1. Vitalii Bidochka, Taras Shevchenko National University of Kyiv, Ukraine<br>2. Sergiy Paliy, Taras Shevchenko National University of Kyiv, Ukraine<br>**Increasing the efficiency of data processing by edge gateways in heterogeneous IoT networks using the Simple Binary Encoding method** |
| ID 209 | 1. Bohdan Savchuk, Anbosoft LLC, USA<br>**Real-time vulnerability testing system for IoT networks based on dynamic threat analysis** |
| ID 222 | 1. Lina Yılmaz, Istanbul Technical University, Turkiye<br>2. Ibraheem Shayea, Istanbul Technical University, Turkiye |

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| | 3. Akzhibek Amirova, Astana IT University, Kazakhstan<br>4. Maksat Serikuly, Astana IT University, Kazakhstan<br>**Proactive Handover Prediction in Mobile Networks Using Machine Learning Techniques** |
| ID 226 | 1. Mustafa Aytaç, Istanbul Technical University, Turkiye<br>2. Ibraheem Shayea, Istanbul Technical University, Turkiye<br>3. Laura Aldasheva, Astana IT University, Kazakhstan<br>4. Akzhibek Amirova, Astana IT University, Kazakhstan<br>**IoT Data-Driven Energy Prediction for Smart Buildings: A Comparative Analysis of Machine Learning Models** |
| ID 259 | 1. Amiran Kurman, Astana IT University, Kazakhstan<br>2. Aigul Adamova, Astana IT University, Kazakhstan<br>**Feature Analysis and Model Selection for Detecting Spoofing and Reconnaissance Attacks in IoT** |
| **16:00** | **Coffee break** |
| **16:20<br>18:00** | **TRACK 3. COMMUNICATIONS<br>Venue- C1.2.240** |
| ID 260 | 1. Nurkhat Zhakiyev, Astana IT University, Kazakhstan<br>2. Mustafa Eren Poyraz, Gazi University<br>3. Güngör Bal, Başkent University, Turkiye<br>4. Erdal Irmak, Gazi University, Turkiye<br>5. Nihat Öztürk, Gazi University, Turkiye<br>**Application of the ABC Algorithm for Coverage Area Optimization in LTE Technology** |
| ID 277 | 1. Aigul Kulakayeva, International Information Technology University, Kazakhstan<br>2. Berik Zhumazhanov, Ghalam LLP, Kazakhstan<br>3. Bagdat Kozhakhmetova, International Information Technology University, Kazakhstan<br>4. Dana Tsoy, International Information Technology University, Kazakhstan<br>**Strategies for the Disposal of Spacecraft of the National Earth Remote Sensing Constellation of the Republic of Kazakhstan** |
| ID 340 | 1. Mehmet Tolga Kılınçkaya, Istanbul Technical University, Turkiye<br>2. Ibraheem Shayea, Istanbul Technical University, Turkiye<br>3. Laura Aldasheva, Astana IT University, Kazakhstan<br>4. Akzhibek Amirova, Astana IT University, Kazakhstan<br>5. Akhmet Tussupov, Astana IT University, Kazakhstan<br>**Estimating Parking Lot Occupancy Rates From Images Using CNN and YOLOv11** |
| ID 364 | 1. Nurzhigit Smailov, Institute of Mechanics and Machine Engineering named after Academician U. A. Joldasbekov, Kazakhstan<br>2. Aidana Bazarbay, Satbayev University, Kazakhstan<br>3. Ainur Kuttybayeva, Institute of Mechanics and Machine Engineering named after Academician U. A. Joldasbekov, Kazakhstan<br>4. Zhiger Zhanatayuly, Institute of Mechanics and Machine Engineering named after Academician U. A. Joldasbekov, Kazakhstan<br>5. Beibarys Sekenov, Institute of Mechanics and Machine Engineering named after Academician U. A. Joldasbekov, Kazakhstan<br>6. Dina Bauyrzhankyzy, Institute of Mechanics and Machine Engineering named after Academician U. A. Joldasbekov, Kazakhstan<br>**Optimizing the sensitivity of fiber optic sensors to measure deformations in composite materials** |
| ID 365 | 1. Ngoc Tran, FPT University, Vietnam<br>**Perceived Network Latency and Stability as Drivers of User Experience in Interactive Video Applications: Evidence From Mobile Users in Vietnam** |
| ID 542 | 1. Yassine Himeur, University of Dubai, UAE<br>2. Omar Alnaseri, Baden-Wuerttemberg Cooperative State University, Germany |

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| | 3. Shadi Atalla, University of Dubai, UAE<br>4. Wathiq Mansoor, American University of Iraq – Baghdad, Iraq<br>5. Hussain Al-Ahmad, University of Dubai, UAE<br>**FedLLM-6G: A Federated Large Language Model for Semantic-Aware and Privacy-Preserving Communication in 6G Networks** |

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| **14:10<br>16:00** | **TRACK 4. COMPUTATIONAL INTELLIGENCE**<br><br>**Muslim Sergaziyev, PhD, Associate Professor (Chair)**<br>**Beibit Abdikenov, PhD, Assistant Professor**<br>**Temirlan Karibekov, Doctor of Medical Sciences**<br>**Aliya Nugumanova, PhD**<br>**Section Secretary – Aizada Kaiyr, Aigerim Bazarkhanova**<br><br>**Venue- C1.2.122**<br><br>**https://us06web.zoom.us/j/88514885985?pwd=8boFk0d5Ts7DWnlRpooxJKXWzEY2EL.1** |
| ID 10 | 1. Sushant Gavaraskar, Vishwakarma Institute of Information Technology Pune, India<br>**Trust-Aware Explainable AI for Credit-Card Fraud Detection: An XAI-Driven Decision Support System with SHAP, Counterfactuals and a Trust Index** |
| ID 32 | 1. Sultanbek Jakhanov, KBTU, Kazakhstan<br>**Conformal Prediction for Crowdfunding Risk Assessment: A Distribution-Free Approach to Uncertainty Quantification** |
| ID 51 | 1. Tomoki Ito, Keio University, Japan<br>2. Yoshiyuki Suimon, Keio University, Japan<br>**Construction of Road Traffic Accident Dataset Associated with Meteorological Data** |
| ID 105 | 1. Parwiz Rahman, Al-Farabi Kazakh National University, Kazakhstan<br>2. Dinara Zhaisanova , Al-Farabi Kazakh National University, Kazakhstan<br>**XAI-Informed Iterative Development (XIID): An Architecture to construct High-Performance, Explainable Loan Default Prediction Models** |
| ID 108 | 1. Arman Nurgalykov, International University of Information Technology, Kazakhstan<br>2. Saya Sapakova, International University of Information Technology, Kazakhstan<br>3. Gani Nurgazy, International University of Information Technology, Kazakhstan<br>4. Askar Sapakov, M. Tynyshpaev ALT University JSC, Kazakhstan<br>5. Duriya Daniayarova, Kazakh American University, Kazakhstan<br>**Multi-Intersection Coordination in Smart Cities: A Spatio-Temporal Graph Attention Reinforcement Learning Approach** |
| ID 114 | 1. Parakhat Nurimov, ”Tashkent Institute of Irrigation and Agricultural Mechanization Engineers” National Research University, Uzbekistan<br>**Latency-Aware CNN–SNN Speaker Verification with Early-Exit for Resource-Constrained Deployment** |
| ID 115 | 1. Chenghan Yang, Al-Farabi Kazakh National University, Kazakhstan<br>2. Baidong Zhao, Al-Farabi Kazakh National University, Kazakhstan<br>3. Dingkun Zheng, Al-Farabi Kazakh National University, Kazakhstan<br>4. Shangpeng Lei, Al-Farabi Kazakh National University, Kazakhstan<br>5. Long Chen, Sichuan University of Science and Engineering, China<br>6. Madina Mansurova, Al-Farabi Kazakh National University, Kazakhstan<br>**Lightweight Semantic Segmentation for Traversable Area Detection in Complex Agricultural Environments Using MobileNetV3-U-Net-Lite** |
| ID 117 | 1. Yelizaveta Tkachyova, Satbayev University, Kazakhstan<br>2. Ariana Sholdanbaeva, Satbayev University, Kazakhstan<br>3. Amir Abdullin, Satbayev University, Kazakhstan<br>4. Abdul Razaque, Satbayev University, Kazakhstan<br>**Next-Generation AI Framework for Real-Time Phishing Detection: A Hybrid Random Forest-LightGBM Method** |
| ID 118 | 1. Kamila Kanafina, Astana IT University, Kazakhstan<br>**Use of AI Methods for Speech Recognition and Big Data Query Processing** |

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| ID 122 | 1. Shirali Kadyrov, New Uzbekistan University, Uzbekistan<br>2. Aliya Mukhtarova, SDU University, Kazakhstan<br>3. Sanzhar Tleubergen, SDU University, Kazakhstan<br>**Evaluating Open-Source Large Language Models on Kazakhstan's NIS Admission Examination** |
| ID 129 | 1. Diana Yermekova, International Information Technology University, Kazakhstan<br>**AUTOMATED SYSTEM FOR STUDENT ATTENDANCE TRACKING IN CLASSROOMS BASED ON VIDEO RECOGNITION** |
| **16:00** | **Coffee break** |
| **16:20<br>18:00** | **TRACK 4. COMPUTATIONAL INTELLIGENCE<br>Venue- C1.2.122** |
| ID 134 | 1. Nady Slam, Northwest Minzu University, China<br>2. Ziwen Zheng, Yunnan Mobile Lancang Branch, China<br>**A Sequential Game Framework for Emergency Decision-Making with Fuzzy Bayesian** |
| ID 150 | 1. Mohammad Shahin Uddin, International Islamic University Chittagong, Bangladesh<br>2. Abrar Fahim, Islamic University of Technology, Bangladesh<br>3. Sebika Dey, Sylhet Agricultural University, Bangladesh<br>4. Nusrath Sultana, East Delta University, Bangladesh<br>5. Md. Shakhauat Hossan Sumon, North South University, Bangladesh<br>6. El Shahriar Khan, Islamic University of Technology, Bangladesh<br>**SE-DenseNet201: An Accurate and Explainable Deep Learning Approach for Cotton Leaf Disease Classification** |
| ID 154 | 1. Tair Baurzhan, Astana IT University, Kazakhstan<br>**Explainable Machine Learning for Risk-Based Transaction Monitoring** |
| ID 160 | 1. Anday Duru, Karabuk University, Turkiye<br>**Triage Decision Support Using CBC Under Class Imbalance** |
| ID 163 | 1. Gaukhar Toktagulova, Astana IT University, Kazakhstan<br>2. Aigul Mimenbayeva, Astana IT University, Kazakhstan<br>3. Marlen Amanbayev, Astana IT University, Kazakhstan<br>**Comparative Analysis of Transformer Architectures for Masked Gene Expression Prediction** |
| ID 169 | 1. Anar Amangozhayeva, Turan University, Kazakhstan<br>2. Yerkezhan Amangozhayeva, International Information Technology University, Kazakhstan<br>3. Mariya Markelova, Turan University, Kazakhstan<br>4. Viktoriya Zabolotnikova, Turan University, Kazakhstan<br>5. Dinara Jarikbayeva, Narxoz University, Kazakhstan<br>6. Serikzhan Tastulekov, Turan University, Kazakhstan<br>**A Data-Driven Model for Monitoring the State of Digital Financial Infrastructures: The IRFPI Approach** |
| ID 170 | 1. Aidos Mukhatayev, Astana IT University, Kazakhstan<br>2. Arailym Medetbek, Astana IT University, Kazakhstan<br>3. Sapar Toxanov, Astana IT University, Kazakhstan<br>4. Andrii Biloshchytskyi, Astana IT University, Kazakhstan<br>5. Serik Omirbayev, Astana IT University, Kazakhstan<br>6. Temirlan Karibekov, Astana IT University, Kazakhstan<br>**Development of a conceptual model of an intelligent digital ecosystem of science management** |
| ID 171 | 1. Nurkamilya Daurenbayeva, International Information Technology University, IITU, Kazakhstan<br>2. Symbat Mamanova, International Information Technology University, IITU, Kazakhstan<br>3. Ali Abd Almisreb, International University of Sarajevo, Bosnia and Herzegovina<br>4. Almas Nurlanuly, Civil Aviation Academy, Kazakhstan |

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| | 5. Nazym Barlykbay, International Information Technology University, IITU, Kazakhstan<br>6. Akbota Akim, International Information Technology University, IITU, Kazakhstan<br>**Quantum-Enhanced Deep Learning for Microclimate Fault Diagnosis** |
| ID 172 | 1. Miras Alimov, Astana IT University, Kazakhstan<br>2. Aigul Adamova, Astana IT University, Kazakhstan<br>**SHAP-Guided Feature Selection with LightGBM-BiLSTM Ensemble for Intrusion Detection in Wireless Sensor Networks** |
| ID 173 | 1. Pakizar Shamoi, KBTU, Kazakhstan<br>2. Anuza Akturina, KBTU, Kazakhstan<br>3. Miras Kaisagaliyev, KBTU, Kazakhstan<br>4. Zhusup Smambayev, KBTU, Kazakhstan<br>**Understanding Public Reactions to AI in Education: Opinion Mining of Social Media Data** |
| ID 177 | 1. Saule Amanzholova, Astana IT University, Kazakhstan<br>2. Samat Mukhanov, Astana IT University, Kazakhstan<br>3. Balziya Aldosh, Astana IT University, Kazakhstan<br>4. Syrym Sapash, Astana IT University, Kazakhstan<br>5. Darkhan Serik, Astana IT University, Kazakhstan<br>**Intelligent Road Sign Monitoring and Classification System on Embedded Edge Devices with TPU Acceleration** |

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| **14:10<br>16:00** | **TRACK 5. ROBOTICS AND AUTOMATION**<br><br>**Ilyas Kazambayev (Chair)**<br>**Aruzhan Shoman, PhD**<br>**Daniyar Dauletiya**<br>**Section Secretary – Ainur Medetkhan**<br><br>**Venue- C1.2.121**<br><br>**https://us06web.zoom.us/j/88683096822?pwd=MTXZiCrlzar4Yf7rLD4ZuYlc83GC0e.1** |
| **14:10 – 14:30** | **Invited Session Presentation:**<br>- Galia Zamaratskaia, PhD, Associate Professor at Sweden Agricultural University (Uppsala, Sweden) |
| ID 25 | 1. Ayan Kemel, L.N.Gumilev Eurasian National University, Kazakhstan<br>**Operator-Aware Hierarchical Fuzzy Control for Urban UAV Navigation: An Empirical Benchmark of Soft Arithmetic Operators** |
| ID 26 | 1. Ayan Kemel, L.N.Gumilev Eurasian National University, Kazakhstan<br>**From Turn Delay to Yaw Pulse A Duration Based Fuzzy Control Framework for UAV Cornering Around Buildings** |
| ID 79 | 1. Mazakov Talgat, al-Farabi Kazakh National University, Kazakhstan<br>**Mathematical model of a multi-motor conveyor drive** |
| ID 89 | 1. Akhmet-Sultan Alatau, Kazakh-British Technical University, Kazakhstan<br>**A Hybrid Multi-Agent Architecture for Resilient Logistics Planning Under Demand and Supply Uncertainty** |
| ID 153 | 1. Chengyang Yang, Mingde Experimental School Xuzhou, China<br>2. Lin Xuan, Al-Farabi Kazakh National University, Kazakhstan<br>3. Chenghan Yang, Al-Farabi Kazakh National University, Kazakhstan<br>4. Baidong Zhao, Al-Farabi Kazakh National University, Kazakhstan<br>5. Dingkun Zheng, Al-Farabi Kazakh National University, Kazakhstan<br>6. Madina Mansurova, Al-Farabi Kazakh National University, Kazakhstan<br>**Design of an Intelligent Robotic System Integrating Medical Waste Transportation and Omnidirectional Precision Disinfection** |
| ID 240 | 1. Aohua han, 西华大学, China<br>2. Yitong peng, Xihua University, China<br>3. Hong hu, Xihua University, China<br>**Design and Experiment of a Pneumatic Impact Precision Shooting and Sowing Device for Soybeans in Hilly and Mountainous Areas** |
| ID 261 | 1. Mykola Klymenko, KNUCA, Ukraine<br>2. Yevhen Mishchuk, Kyiv National University of Construction and Architecture, Ukraine<br>3. Dmytro Mishchuk, Kyiv National University of Construction and Architecture, Ukraine<br>4. Yaroslav Korobenko, Kyiv National University of Construction and Architecture, Ukraine<br>5. Andrii Biloshchytskyi, Astana IT University, Kazakhstan<br>6. Ievgen Ivinskyi, Kyiv National University of Construction and Architecture, Ukraine<br>**THE CLASSICAL MECHANICS METHODS IN PROBLEMS OF OPTIMIZATION OF ROBOTIC SYSTEMS USING THE NIRYO ONE PLATFORM** |
| ID 336 | 1. Nurbolat Tasbolatuly, Astana IT University, Kazakhstan<br>**Practical Output Tracking for Switched Nonlinear Time-Delay Systems via a SLF** |
| ID 348 | 1. Adil Maidanov, L. N. Gumilyov Eurasian National University, Kazakhstan<br>2. Hüseyin Canbolat, Ankara Yıldırım Beyazıt University, Turkiye<br>3. Sabyrzhan Atanov, L. N. Gumilyov Eurasian National University, Kazakhstan<br>**Fuzzy logic-based adaptive control for LiDAR-equipped mobile robots** |

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| ID 352 | 1. Abzal Kyzyrkanov, Astana IT University, Kazakhstan<br>**An Exploratory Study of Gender Effects on Pupillary Cognitive Load in Human–Robot Interaction** |
| **16:00** | **Coffee break** |
| **16:20<br>18:00** | **TRACK 5. ROBOTICS AND AUTOMATION<br>Venue- C1.2.121** |
| ID 406 | 1. Dina Kantayeva, Astana IT University, Kazakhstan<br>2. Batyrzhan Akhmetzhanov, Astana IT University, Kazakhstan<br>3. Ilyas Kazambayev, Astana IT University, Kazakhstan<br>**Concept of the Smart Archival Box for Historical Artifacts Storage** |
| ID 435 | 1. Adilet Ormanov, Eurasian National university, Kazakhstan<br>2. Kanagat Dyusekeev, Eurasian National University, Kazakhstan<br>3. Stanislav Shidlovskiy, National Research Tomsk State University<br>4. Zarina Sayakulova , Astana IT University, Kazakhstan<br>**Development of a Fuzzy Control Algorithm for Precise Quadcopter Landing Under Wind Disturbances** |

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| **14:10<br>16:00** | **TRACK 6. SIGNAL PROCESSING**<br><br>**Baurzhan Ilyassov, PhD, professor (Chair)**<br>**Leila Rzayeva, PhD, Associated professor**<br>**Section Secretary – Gulzhazira Almakhambetkyzy, Aigerim Bakytbek**<br><br>**Venue- Atameken Space**<br><br>**https://us06web.zoom.us/j/89011220480?pwd=rYkwtXovx9CzLpijPmU86qD7jcpMF0.1** |
| **14:10 – 14:30** | **Invited Session Presentation:**<br>**-** *Ignacio Sanjuán Moltó – Professor, Institute of Advanced Materials (INAM) at University Jaume I (Castelló de la Plana, Spain)* |
| ID 46 | 1. Arypzhan Aben, Khoja Akhmet Yassawi International Kazakh-Turkish University, Kazakhstan<br>**Comparative analysis of CNN, BiLSTM and GCN models in automatic detection of speech disorders in children in the Kazakh language** |
| ID 95 | 1. Anel Auyezova, IITU, Kazakhstan<br>2. Aigerim Aitim, IITU, Kazakhstan<br>3. Bakhtgerey Sinchev, IITU, Kazakhstan<br>4. Tolkynai Sadykova, IITU, Kazakhstan<br>5. Yernar Madiyar, AITU, Kazakhstan<br>6. Orynkul Sagyntay, IITU, Kazakhstan<br>**Hybrid Neural Approaches for NP-Complete Problem Solving in Unstructured Legal Data** |
| ID 101 | 1. Ivan Bondar, Kazakh Automobile and Road Institute named after L. B. Goncharov, Kazakhstan<br>**Processing of Geotechnical Sensor Signals For Early Detection of Stability Loss in Earth Embankments** |
| ID 106 | 1. Bakhyt Alipova, International IT University, Kazakhstan<br>**Interactive Signal Processing–Based Modeling of Thermoelastic Response in a Half-Space Using Green-Type Function in MATLAB GUI** |
| ID 113 | 1. Alina Gutoreva, KBTU, Kazakhstan<br>2. Zhaniya Omar, KBTU, Kazakhstan<br>**Tracking Human Daily Cognitive Activity from EEG and Biometric Data** |
| ID 120 | 1. Zhuldyz Bagybek, International Information Technology University, Kazakhstan<br>2. Aigerim Aitim, International Information Technology University, Kazakhstan<br>**Calibration-Free Motor Imagery Classification Based on Electroencephalography Using Domain-Adversarial Neural Networks** |
| ID 121 | 1. Zhuldyz Bagybek, International Information Technology University, Kazakhstan<br>2. Aigerim Aitim, International Information Technology University, Kazakhstan<br>**Ablation and Robustness Analysis of Domain-Adversarial EEGNet for Calibration-Free Motor Imagery Brain-Computer Interfaces** |
| ID 329 | 1. Aidana Abilova, L.N.Gumilev Eurasian National University, Kazakhstan<br>**Processing Images for Rapid Detection and Quantification of Seismic Surface Changes** |
| ID 347 | 1. Dina Koishiyeva, Kazakh-British Technical University, Kazakhstan<br>2. Assel Mukasheva, Kazakh-British Technical University, Kazakhstan<br>3. Murat Nauryzbayev, Kazakh-British Technical University, Kazakhstan<br>4. Olzhas Kenzhaliyev, Kazakh-British Technical University, Kazakhstan<br>5. Jeong Won Kang , National University of Transportation, Korea<br>**Predicting Livestock Activity Patterns with Machine Learning** |
| ID 351 | 1. Abzal Kyzyrkanov, Astana IT University, Kazakhstan<br>**CSP–LDA Decoding of Left–Right Hand Motor Imagery EEG: Interpretable Spatial Patterns and Subject-Level Error Trends** |

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| **16:00** | **Coffee break** |
| **16:20<br>18:00** | **TRACK 6. SIGNAL PROCESSING<br>Venue- Atameken Space** |
| ID 377 | 1. Nurzhigit Smailov, Institute of Mechanics and Machine Engineering named after Academician U. A. Joldasbekov, Kazakhstan<br>2. Akezhan Sabibolda, Institute of Mechanics and Machine Engineering named after Academician U. A. Joldasbekov, Kazakhstan<br>3. Maral Abulkhanova, Satbayev University, Kazakhstan<br>4. Moldir Baigulbayeva, Al-Farabi Kazakh National University, Kazakhstan<br>5. Ydyrys Makhatov, Satbayev University, Kazakhstan<br>6. Dina Bauyrzhankyzy, Institute of Mechanics and Machine Engineering named after Academician U. A. Joldasbekov, Kazakhstan<br>**Doppler-Aware Dynamic Spectral-Correlation Framework for Passive Radio Emitter Tracking** |
| ID 492 | 1. Zhanseitova Akzhunis , Eurasian National University named after L.N. Gumilyov, Kazakhstan<br>**Features of Using the OKO-3 Ground-Penetrating Radar for Detection and Analysis of Subsurface Heterogeneities** |
| ID 507 | 1. Zhanseitova Akzhunis , Eurasian National University named after L.N. Gumilyov, Kazakhstan<br>**1. Features of Using the OKO-3 Ground-Penetrating Radar for Detection and Analysis of Subsurface Heterogeneities** |

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| **14:10<br>16:00** | **Workpshop «AI-Driven Physical Culture and Mass Sports (AIMS 2025)»**<br><br>**Alexandr Neftissov, PhD, Associate Professor (chair)**<br>**Alina Ten**<br>**Section Secretary –Lalita Kirichenko**<br><br>**Venue - Kazakh National University of Sports, "Sports Analytics and Training" Research Center, Meeting Room (11 Karkaraly Street, Astana)**<br><br>**https://us06web.zoom.us/j/84412600461?pwd=tOpSzDRcJqMa9BEhno41WVAbLZBfdK.1** |
| ID 242 | 1. Saida Smakova, Kazakh National University of Sports, Kazakhstan<br>2. Khanat Kassenov, Kazakh National University of Sports, Kazakhstan<br>3. Tursynzada Kuangaliyeva, Kazakh National University of Sports, Kazakhstan<br>4. Alexander Neftissov, Kazakh National University of Sports, Kazakhstan<br>5. Madina Kutubayeva, L.N. Gumilyov Eurasian National University, Kazakhstan<br>**Video-Based Exercise Form Evaluation Using Temporal Pose Alignment and Explainable Angle Descriptors** |
| ID 251 | 1. Yuliia Riabchun, Kyiv National University of Construction and Architecture, Ukraine<br>2. Elena Gorda, Kyiv National University of Construction and Architecture, Ukraine<br>3. Anatolii Serdiuk, Warsaw University of Technology<br>**Evolutionary Swarm Model for Decentralized UAV Navigation and Local Positioning** |
| ID 263 | 1. Temirlan Ozbek, Nazarbayev University, Kazakhstan<br>2. Yeltay Rakhmanov, Nazarbayev University, Kazakhstan<br>**Feasibility Study of Implementing AI-driven Exercise Platforms in Kazakhstani Practice** |
| ID 379 | 1. Lalita Kirichenko, Astana IT University, Kazakhstan<br>2. Alexandr Neftissov, Kazakh National University of Sports, Kazakhstan<br>3. Andrey Shunko , Kazakh National University of Sports, Kazakhstan<br>4. Nikolay Martyntsov, Astana IT University, Kazakhstan<br>5. Valentin Savitskii, Ministry of Tourism and Sports of the Republic of Kazakhstan, Kazakhstan<br>**Concept of an intelligent monitoring system based on artificial intelligence for identifying schoolchildren's aptitudes for sports** |
| ID 383 | 1. Andrey Mikryakov, Astana IT University, Kazakhstan<br>2. Adil Faizullin, Astana IT University, Kazakhstan<br>3. Ilyas Kazambayev, Astana IT University, Kazakhstan<br>4. Aubakirova Aliya, Astana IT University, Kazakhstan<br>5. Ainur Medetkhan, Astana IT University, Kazakhstan<br>**Development of an intelligent fitness tracker for predictive fatigue analysis based on artificial intelligence and the internet of things technologies** |
| ID 430 | 1. Alina Ten, Kazakh National University of Sports, Kazakhstan<br>2. Yerik Makhambetov, Dulaty University, Kazakhstan<br>3. Vladimir Potop, University Center Pitesti, National University of Science and Technology "Politehnica"<br>4. Anna Zhidovinova, Kazakh Academy of Sport and Tourism, Kazakhstan<br>5. Oleg Komarov , Akhmet Baitursynuly Kostanay Regional University, Kazakhstan<br>6. Janat Nurtazina, Kazakh National University of Sports, Kazakhstan<br>**Machine Learning-Based Classification of Sport-Specific Morphofunctional Profiles in Young Male Athletes** |
| ID 432 | 1. Tursynzada Kuangaliyeva, Kazakh National University of Sports, Kazakhstan<br>**Impact of Grip Classification and Grip-Strength Training on Competitive Effectiveness in Female Judo Athletes** |

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| ID 438 | 1. Zhaxat Kenzhin, Kazakh National University of Sports, Kazakhstan<br>**A Conceptual Model of Long-Term Judo Training Based on Performance Monitoring and Technical and Tactical Indicators** |
| ID 442 | 1. Yuliya Idiyatova, AITU, Kazakhstan<br>**Review of Regional Models for Engaging Older Adults in Mass Sports: Practices Using Digital Technologies** |
| ID 460 | 1. Lalita Kirichenko, Astana IT University, Kazakhstan<br>2. Alexandr Neftissov, Kazakh National University of Sports, Kazakhstan<br>3. Damir Tassybayev, Astana IT University, Kazakhstan<br>4. Magzhan Amangeldi, Astana IT University, Kazakhstan<br>5. Oleg Stelvaga, Astana IT University, Kazakhstan<br>**Development of a Real-Time Pull-Up Validation System for Competitive Sports Using YOLO26n-Pose** |
| **16:00** | **Coffee break** |
| **16:20<br>18:00** | **Workpshop «AI-Driven Physical Culture and Mass Sports (AIMS 2025)»<br>Venue- C1.2.225** |
| ID 473 | 1. Zhassyn Mukhambet, Kazakh National University of Sports, Kazakhstan<br>2. Adilzhan Kereyev, K. Zhubanov Aktobe Regional University, Kazakhstan<br>3. Mukhtar Seitkerei, K. Zhubanov Aktobe Regional University, Kazakhstan<br>4. Aisulu Tengirbergen, K. Zhubanov Aktobe Regional University, Kazakhstan<br>5. Daulet Azerbayev, Kazakh National University of Sports, Kazakhstan<br>**ASSESSMENT OF BIOMECHANICAL PARAMETERS OF PHYSICAL EXERCISES BASED ON COMPUTER VISION** |
| ID 518 | 1. Svitlana Kokareva, National University «Zaporizhzhia Polytechnic»<br>2. Borys Kokarev, National University «Zaporizhzhia Polytechnic»<br>3. Artem Kokarev, National University «Zaporizhzhia Polytechnic»<br>**OPTIMIZING STRATEGIES FOR THE DEVELOPMENT OF A NEW COMPETITIVE ROUTINE IMAGE IN AEROBIC GYMNASTICS THROUGH THE APPLICATION OF ARTIFICIAL INTELLIGENCE SYSTEMS** |
| ID 546 | 1. Sergiy Bronin, Vilnius University<br>2. Dmytro Vasilchuk, National Technical University "Kharkiv Polytechnic Institute"<br>3. Roman Tomashevskyi, National Technical University "Kharkiv Polytechnic Institute"<br>4. Borys Liubarskyi, National Technical University "Kharkiv Polytechnic Institute"<br>5. Olexandr Plakhtiy, Ukrainian State University of Railway Transport<br>**Metrological Verification And Dynamic Characteristics Analysis Of A Venturi-Flowmeter-Based Spirometer Primary Transducer For Sports Medicine** |
| ID 552 | 1. Lalita Kirichenko, Astana IT University, Kazakhstan<br>2. Alexandr Neftissov , Kazakh National University of Sports, Kazakhstan<br>3. Nikolay Martyntsov, Astana IT University, Kazakhstan<br>4. Damir Tassybayev, Astana IT University, Kazakhstan<br>**Development of AI-Based Analytical Systems in Sports: A Case Study of Table Tennis** |

**TECHNICAL SESSIONS**
**14 May 2026 (Thursday)**
**(Time zone UTC+5, Astana time)**

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| **14:10<br>18:00** | **TECHNICAL SESSIONS** |
| **14:10<br>16:00** | **TRACK 1. COMPUTER SCIENCE (Room 1)**<br><br>**Kumar Praveen, PhD, Professor (Chair)**<br>**Didar Yedilkhan, PhD, Professor**<br>**Section Secretary –Nurbay Kairbek, Daniyar Amantayev**<br><br>**Venue C.1.2.227**<br><br>**https://us06web.zoom.us/j/83175004971?pwd=QIFBkHGBds7zs3AuIR4LbNyYwM9wtZ.1** |
| ID 175 | 1. Marlen Amanbayev, Astana IT University, Kazakhstan<br>2. Sayan Aukatov, Astana IT University, Kazakhstan<br>3. Azamat Nagumanov, Astana IT University, Kazakhstan<br>4. Aivar Sakhipov, Astana IT University, Kazakhstan<br>5. Symbat Nurgaliyeva, Astana IT University, Kazakhstan<br>6. Islam Omirzak, Astana IT University, Kazakhstan<br>**AI-Powered Code Generation in Agile Workflows: Risks, Review Strategies, and Developer Perceptions** |
| ID 176 | 1. Roman Vassilchenko, Astana IT University, Kazakhstan<br>2. Vladislav Goncharov, Astana IT University, Kazakhstan<br>3. Alibek Orynbek, Astana IT University, Kazakhstan<br>**Intelligent Tender Procurement Analysis: Comparative Study of International Systems and Kazakhstan's AdalQarau Platform** |
| ID 178 | 1. Yurii Andrashko, Uzhhorod National University, Ukraine<br>2. Sergii Shkiria, Uzhhorod National University, Ukraine<br>3. Mariia Lomaha, Uzhhorod National University, Ukraine<br>**Pre-Authentication Semantic Filtering with Compact Convolutional Neural Networks for Digital Object Verification** |
| ID 191 | 1. Ramin Sagandykov, Astana IT University, , Kazakhstan<br>2. Yunkyung Lee, Korea National University of Transportation, Korea<br>3. Saule Amanzholova, Astana IT University, Kazakhstan<br>4. Serik Aisulu, Non-profit JSC "Almaty University of Power Engineering and Telecommunications named after Gumarbek Daukeyev, Kazakhstan<br>5. Assel Mukasheva, Kazakh-British Technical University, Kazakhstan<br>**An Investigation of an Explainability-Driven Hybrid Model for Flow-Based Intrusion Detection** |
| ID 192 | 1. Aliya Jemal Getahun, Al Farabi Kazakh National university, Kazakhstan<br>2. Alnur Kengesbay, Astana IT University, Kazakhstan<br>3. Baglan Imanbek, Al Farabi Kazakh National university, Kazakhstan<br>4. Bibars Amangeldy, Al Farabi Kazakh National university, Kazakhstan<br>5. Zhanel Baigarayeva, Al Farabi Kazakh National university, Kazakhstan<br>6. Dinara Azat, Nazarbayev University, Kazakhstan<br>**An Explainable Self-Attention and Intersample Attention Transformer for Initial Multi-Class Screening of Sleep Disorders** |

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| ID 194 | 1. Aliya Jemal Getahun, Al Farabi Kazakh National university, Kazakhstan<br>2. Alnur Kengesbay, Astana IT University, Kazakhstan<br>3. Baglan Imanbek, Al Farabi Kazakh National university, Kazakhstan<br>4. Akerke Amangeldy , Al Farabi Kazakh National university, Kazakhstan<br>5. Bibars Amangeldy, Al Farabi Kazakh National university, Kazakhstan<br>6. Zhanel Baigarayeva, Al Farabi Kazakh National university, Kazakhstan<br>**A Benchmarking Study of Classical and Quantum Machine Learning Approaches for Blood–Brain Barrier Permeability Prediction** |
| ID 195 | 1. Aliya Jemal Getahun, Al Farabi Kazakh National university, Kazakhstan<br>2. Alnur Kengesbay, Astana IT University, Kazakhstan<br>3. Bibars Amangeldy, Al Farabi Kazakh National university, Kazakhstan<br>4. Zhanel Baigarayeva, Al Farabi Kazakh National university, Kazakhstan<br>5. Sabira Ataee, Uppsala University<br>6. Edom Belayneh, Michigan University<br>**Quantifying Epigenetic Drift Using an Explainable Transformer-Based Foundation Model for Estimating Biological Age via Methylation Entropy** |
| ID 196 | 1. Bakdaulet Zhumagulov, Joldasbekov Institute of Mechanics and Engineering, Kazakhstan<br>2. Maksat Turmakhan, Satbayev University, Kazakhstan<br>3. Symbat Sharipova, Satbayev University, Kazakhstan<br>4. Zhanel Zholdybaeva, Abai Kazakh National Pedagogical University, Kazakhstan<br>5. Zhanar Omirbekova, Satbayev University, Kazakhstan<br>6. Ulzhalgas Zhunissova, Joldasbekov Institute of Mechanics and Engineering, Kazakhstan<br>**Analyzing Negative Transfer in Cross-Modal Attention Fusion of Multi-Omic Data for Psychiatric Disorders** |
| ID 197 | 1. Adilet Kakharov, Al-Farabi Kazakh National University, Kazakhstan<br>2. Shugyla Kurmanbek, Al-Farabi Kazakh National University, Kazakhstan<br>3. Nurdaulet Tasmurzayev, Al-Farabi Kazakh National University, Kazakhstan<br>4. Jamilya Kaibullayeva, Institute of Cardiology and Internal Diseases, Kazakhstan<br>5. Assiya Boltaboyeva, Al-Farabi Kazakh National University, Kazakhstan<br>6. Gulshat Amirkhanova, Al-Farabi Kazakh National University, Kazakhstan<br>**Causal AI Framework for Treatment Effect Estimation in Cardiovascular Disease Risk Analysis** |
| ID 198 | 1. Shugyla Kurmanbek, Al-Farabi Kazakh National University, Kazakhstan<br>2. Dinara Turmakhanbet, Al-Farabi Kazakh National University, Kazakhstan<br>3. Akerke Amangeldy, Al-Farabi Kazakh National University, Kazakhstan<br>4. Raikhan Bolatbekova, Almaty Oncology Center, Kazakhstan<br>5. Nursultan Izbagambetov, Almaty Oncology Center, Kazakhstan<br>6. Assiya Boltaboyeva, Al-Farabi Kazakh National University, Kazakhstan<br>**Benchmarking Tabular Foundation Models and AutoML Systems in Cardiovascular Disease Prediction** |
| ID 200 | 1. Abdulaziz Abdukarimov, Joldasbekov Institute of Mechanics and Engineering, Kazakhstan<br>2. Miras Mukazhan, Joldasbekov Institute of Mechanics and Engineering, Kazakhstan<br>3. Aruzhan Baisiikhova, Abai Kazakh National Pedagogical University, Kazakhstan<br>4. Adilet Kakharov, Al-Farabi Kazakh National University, Kazakhstan<br>5. Waldemar Wójcik, Lublin University of Technology, Poland<br>6. Baglan Imanbek, Al-Farabi Kazakh National University, Kazakhstan<br>**Predicting Volatile Fatty Acid Concentration in Anaerobic Digesters Using Routine Measurements and AI-Based Machine Learning** |
| **16:00** | **Coffee break** |

| 16:20<br>18:00 | **TRACK 1. COMPUTER SCIENCE (Room 1)**<br>**Venue C.1.2.227**<br>**https://us06web.zoom.us/j/83175004971?pwd=QIFBkHGBds7zs3AuIR4LbNyYwM9wtZ.1** |
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| ID 201 | 1. Mukhamejan Aitkazin, Al Farabi Kazakh National University, Kazakhstan<br>2. Tolebi Riza, Al Farabi Kazakh National University, Kazakhstan<br>3. Murat Bolysbek, Al Farabi Kazakh National University, Kazakhstan<br>4. Asylzhan Bolysbek, Al Farabi Kazakh National University, Kazakhstan<br>5. Nathnael Biresaw, Kazak British technical University, Kazakhstan<br>6. Nurdaulet Tasmurzayev, Al Farabi Kazakh National University, Kazakhstan<br>**Explainable Deep Learning for Pediatric Brain Tumor Segmentation using Attention U-Net** |
| ID 202 | 1. Mirwais Mohebi , Al-Farabi Kazakh National University, Kazakhstan<br>2. Marlen Maulenbekov, Telecommunications and Space Technologies, Kazakhstan<br>3. Abenezer Alemayehu , Kazakh British Technical University, Kazakhstan<br>4. Gulmira Nietbaeva, Abai Kazakh National Pedagogical University, Kazakhstan<br>5. Inzhu Amangeldi, Abai Kazakh National Pedagogical University, Kazakhstan<br>6. Alan Kazkenov, Innovations and Aerospace Industry of the Republic of Kazakhstan, Kazakhstan<br>**Benchmarking of Classical and Modern Tabular Machine Learning Models for Sleep Efficiency Prediction** |
| ID 205 | 1. Olena Kryvoruchko, National University of Life and Environmental Sciences of Ukraine,Ukraine<br>2. Elizaveta Zavhorodnya, State University of Trade and Economics, Ukraine<br>3. Yaroslav Shestak, State University of Trade and Economics, Ukraine<br>4. Oleh Kulynich, National University of Life and Environmental Sciences of Ukraine, Ukraine<br>**Intelligent Model for Protecting the Components of the Information Infrastructure of a Higher Education Institution Based on Modern Cybersecurity Approaches** |
| ID 208 | 1. Saida Abdrakhmanova, Astana IT University, Kazakhstan<br>**Multimodal machine learning method for early identification of skin diseases** |
| ID 210 | 1. Sapargul Ordobaeva, Vistula University, Poland<br>2. Selcuk Cankurt, Vistula University, Poland<br>3. Ualikhan Sadyk, SDU University, Kazakhstan<br>**Interpretable Hybrid CNN-BiLSTM-Attention Model for ECG Arrhythmia Classification** |
| ID 211 | 1. Dair Karatay, Astana IT University, Kazakhstan<br>2. Zhanna Sadirmekova, Astana IT University, Kazakhstan<br>**Fake News Detection on Twitter Using Machine Learning** |
| ID 212 | 1. Alemzhan Makhambetov, Astana IT University, Kazakhstan<br>2. Aigul Adamova, Astana IT University, Kazakhstan<br>**Comparative Evaluation of QUIC Congestion Control Algorithms with Machine Learning-Based Adaptation Across Diverse Network Environments** |
| ID 228 | 1. Yersultan Serimbetov, Astana IT University, Kazakhstan<br>2. Yunkyung Lee, Korea National University of Transportation, Korea<br>3. Saule Amanzholova, Astana IT University, Kazakhstan<br>4. Jeong Won Kang, Korea National University of Transportation, Korea<br>5. Aisulu Serik , Almaty University of Power Engineering and Telecommunications, Kazakhstan<br>6. Assel Mukasheva, Kazakh-British Technical University, Kazakhstan |

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| | **A Systematic Review and Taxonomy of Machine Learning Approaches for Static Malware Detection in Linux ELF Binaries** |
| ID 229 | 1. Ihor Berezutskyi, Kyiv National University of Construction and Architecture, Ukraine<br>2. Tetyana Honcharenko, Kyiv National University of Construction and Architecture, Ukraine<br>3. Mykola Tsai, Kyiv National University of Construction and Architecture, Ukraine<br>4. Mykola Zdrilko, Kyiv National University of Construction and Architecture, Ukraine<br>5. Illia Sachenko, Kyiv National University of Construction and ArchitectureUkraine<br>6. Nursaya Batyr, Astana IT University, Kazakhstan<br>**Database-driven Information System for Support IT Project Methodology Selection** |
| ID 254 | 1. Assem Tynyshtybay, Kazakh-British Technical University, Kazakhstan<br>2. Azamat Serek, Astana IT University, Kazakhstan<br>3. Meraryslan Meraliyev, SDU University, Kazakhstan<br>**Development of Adaptive Approach for Kazakh Text Correction Using Sequence-to-Sequence Models** |
| ID 266 | 1. Aldiyar Seylkhanov, Astana It University, Kazakhstan<br>**Development of a hybrid deep learning model for detection and stable tracking of multiple objects in dense occlusion** |
| **14:10<br>16:00** | **TRACK 1. COMPUTER SCIENCE (Room 2)**<br><br>**Kumar Praveen, PhD, Professor (Chair)**<br>**Didar Yedilkhan, PhD, Professor**<br>**Section Secretary –Nurbay Kairbek, Daniyar Amantayev**<br><br>**Venue C.1.2.225**<br><br>**https://us06web.zoom.us/j/82095614358?pwd=BJbJgeP8hObLtaJ4Vn1aVzNEozWGqY.1** |
| ID 278 | 1. Zhumaniyaz Mamatnabiyev, Suleyman Demirel University, Kazakhstan<br>2. Shodi Farhod, SDU University, Kazakhstan<br>**A Graph-Based Approach to Structuring The Internet of Things Curriculum** |
| ID 280 | 1. Rostyslav Lisnevskyi, Astana IT University, Kazakhstan<br>2. Myroslava Gladka, Taras Shevchenko National University of Kyiv, Ukraine<br>3. Mykola Kostikov, Taras Shevchenko National University of Kyiv, Ukraine<br>4. Saule Amanzholova, Astana IT University, Kazakhstan<br>5. Ruslan Tormosov, Astana IT University, Kazakhstan<br>6. Vitalii Lisnevskyi, Astana IT University, Kazakhstan<br>**Development of a hybrid analytical model to assess the impact of central bank digital currencies** |
| ID 284 | 1. Rostyslav Lisnevskyi, AITU, Kazakhstan<br>2. Vitalii Lisnevskyi, Astana IT University, Kazakhstan<br>3. Vladlen Lisnevskyi, Taras Shevchenko National University of Kyiv, Ukraine<br>4. Noyan Tendikov, Astana IT University, Kazakhstan<br>5. Oleksandr Kuchanskyi, Astana IT University, Kazakhstan<br>**Optimizing nonce range selection in solo Bitcoin mining** |
| ID 290 | 1. Azamat Karsybayev, Astana IT University, Kazakhstan<br>**Development of machine learning methods to define the forest area in Kazakhstan by analyzing aerial and satellite images** |
| ID 293 | 1. Beibarys Kozgambek, Kazakh-British Technical University, Kazakhstan<br>**Author name disambiguation under sparse-data conditions** |

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| ID 294 | 1. Nariman Sailaubek, Astana IT University, Kazakhstan<br>2. Praveen Kumar, Astana IT University, Kazakhstan<br>**Criteria-Based Evaluation of Pedestrian Navigation Systems** |
| ID 299 | 1. Akniyet Sarsenbek, Astana IT University, Kazakhstan<br>2. Zhanna Sadirmekova, Astana IT University, Kazakhstan<br>**Development of an Algorithm for Personalized Selection of Game Based Tasks to Foster Critical Thinking in School Students** |
| ID 303 | 1. Sanzhar Kurmambayev, Al-Farabi Kazakh National University, Kazakhstan<br>2. Saule Amanzholova, Astana IT University, Kazakhstan<br>**A Comparative Study of Supervised Machine Learning Algorithms for Ransomware Detection** |
| ID 307 | 1. Serhii Pozdniakovych, Kyiv National University of Construction and Architecture, Ukraine<br>2. Tetyana Honcharenko, Kyiv National University of Construction and Architecture, Ukraine<br>3. Igor Achkasov, Kyiv National University of Construction and Architecture, Ukraine<br>4. Roman Zhuk, Kyiv National University of Construction and Architecture, Ukraine<br>5. Sergiy Paliy, Kyiv National University of Construction and Architecture, Ukraine<br>6. Artem Biloshchytskyi, Kyiv National University of Construction and Architecture, Ukraine<br>**Security Challenges and Robustness of Computer Vision Systems to Adversarial Attacks** |
| ID 319 | 1. Bexultan Yessirkegen, Astana IT University, Kazakhstan<br>2. Alua Myrzakerimova, Astana IT University, Kazakhstan<br>3. Temirlan Ilyassov, Astana IT University, Kazakhstan<br>**Risk-Aware, Multi-Objective Truck Routing in Europe** |
| ID 320 | 1. Akmadi Assylkhan, Astana IT University, Kazakhstan<br>2. Svitlana Biloshchytska, Astana IT University, Kazakhstan<br>**Comparative Evaluation of Neural Architectures for AI-Generated Text Detection** |
| **16:00** | **Coffee break** |
| **16:20<br>18:00** | **TRACK 1. COMPUTER SCIENCE (Room 2)**<br>**Venue C.1.2.225**<br><br>**https://us06web.zoom.us/j/82095614358?pwd=BJbJgeP8hObLtaJ4Vn1aVzNEozWGqY.1** |
| ID 331 | 1. Nurtore Onggarbay, Astana IT University, Kazakhstan<br>2. Aigul Adamova, Astana IT University, Kazakhstan<br>**Intrusion Detection in IIoT Networks Using a Hybrid Deep Learning Architecture: Ablation and Feature Analysis on CIC-IOT 2025** |
| ID 333 | 1. Mukhammed Kaskyrbaev, Astana IT University, Kazakhstan<br>**Early Rug Pull Detection in Solana DeFi Using Liquidity Pool Dynamics and Machine Learnings** |
| ID 337 | 1. Mustafo Sarvarov, Astana IT University, Kazakhstan<br>**Integrating Crop Yield Prediction with Market Price Forecasting for Data-Driven Crop Selection in Kazakhstan** |
| ID 341 | 1. Alina Omarova, International Information Technologies University, Kazakhstan<br>2. Anel Auyezova, International Information Technology University, Kazakhstan<br>3. Tomiris Baikenova, International Information Technology University, Kazakhstan<br>4. Togzhan Batyrbek, International Information Technology University, Kazakhstan<br>5. Aiym Kydyrali, International Information Technology University, Kazakhstan<br>6. Symbat Koibakova, Yessenov University, Kazakhstan |

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| | **Application of Satellite Data for Monitoring the Condition of the Caspian Sea Water Areas in Port Zones** |
| ID 343 | 1. Diyas Nurullayev, Astana IT university, Kazakhstan<br>2. Alibek Orynbek, Astana IT university, Kazakhstan<br>**Enhancing Consensus Efficiency and Security in DAG-Based Distributed Ledgers via an Adaptive Tip Selection Algorithm** |
| ID 344 | 1. Dias Rustembek, Astana IT University, Kazakhstan<br>2. Aidiye Aidarbekov, Astana IT University, Kazakhstan<br>3. Riza Akhitova, Astana IT University, Kazakhstan<br>**An Empirical Comparison of Manual and Automatic Geometry Optimization for Mobile Rendering** |
| ID 345 | 1. Jeleubay Aslan, Astana IT University, Kazakhstan<br>2. Nurzhamal Kashkimbayeva, Astana IT University, Kazakhstan<br>**Development of an intelligent software platform for forecasting market trends and stock prices based on the analysis of big financial data and news feeds** |
| ID 346 | 1. Anastasiya Vecherkovskaya, Taras Shevchenko National University of Kyiv,Ukraine<br>2. Serhii Dotsenko, Taras Shevchenko National University of Kyiv, Ukraine<br>**Game-Theoretic Approaches to Optimal UAV Route Planning for Threat Detection and Interception** |
| ID 355 | 1. Orlan Galiy, Astana IT University, Kazakhstan<br>2. Ainur Zhumadillayeva, Astana IT University, Kazakhstan<br>**Calibration-Aware MRI-Based Transfer learning for Early Cognitive Impairment Detection Across OASIS and ADNI Cohorts** |
| ID 357 | 1. Rymgul Kazhimova, Astana IT University, Kazakhstan<br>**Real-Time Spatio-Temporal Trajectory Analysis for Robust Traffic Violation Detection in Urban Video Streams** |
| ID 360 | 1. Yevheniia Kataieva, Comenius University in Bratislava, Slovakia<br>2. Philip Mojto, Slovak University of Technology in Bratislava, Slovakia<br>**A Machine Learning Pipeline for Bug-Inducing Commit Prediction to Support Testing Prioritization** |

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| **14:10<br>16:00** | **TRACK 2. TECHNOLOGY AND ENGINEERING MANAGEMENT**<br><br>**Dana Tsoy (Chair)**<br>**Section Secretary –Yerkezhan Amangozhayeva**<br><br>**Venue- C1.2.139**<br><br>**https://us06web.zoom.us/j/86836645146?pwd=wKCvb5NYaF19T0C9nCm0TmljHd7A6G.1** |
| **14:10 – 14:30** | **Invited Session Presentation:**<br>- Yuxiao Qin, Professor, Northwestern Polytechnical University (Xi'an, China) |
| ID 255 | 1. Oman Abyshev, Oscar & Sons Group, Kazakhstan<br>2. Marat Abyshev, Kyrgyz State Technical University n.a. I. Razzakov, Kyrgyzstan<br>3. Ormon Abyshev, Kyrgyz State Technical University n.a. I. Razzakov, Kyrgyzstan<br>4. Anar Zaripova, Kyrgyz National University n.a. J.Balasagyn, Kyrgyzstan<br>5. Usen Omuraliev, Kyrgyz State Technical University n.a. I. Razzakov, Kyrgyzstan<br>**Application of Synthetic Data Generation and Machine Learning for Continious Production System engineering** |
| ID 305 | 1. Vladyslav Susidko, Kyiv National University of Construction and Architecture, Ukraine<br>2. Tetyana Honcharenko, Kyiv National University of Construction and Architecture, Ukraine<br>3. Vitalii Gots, Kyiv National University of Construction and Architecture, Ukraine<br>4. Pavlo Kruk, Kyiv National University of Construction and Architecture, Ukraine<br>5. Roman Zhuk, Kyiv National University of Construction and Architecture, Ukraine<br>6. Artem Biloshchytskyi, Astana IT University, Kazakhstan<br>**An Integrated Cloud-based System for Human Psychological State Assessment** |
| ID 330 | 1. Nurym Shora, NCPD «Orleu», Kazakhstan<br>2. Aidana Shilibekova, NCPD «Orleu», Kazakhstan<br>3. Azamat Bidanov, NCPD «Orleu», Kazakhstan<br>**Design and Implementation of a Smart Information System for Multi-Level Teacher Effectiveness Ranking** |
| ID 338 | 1. Iurii Chupryna, Kyiv National University of Construction and Architecture, Ukraine<br>2. Galyna Ryzhakova, Kyiv National University of Construction and Architecture, Ukraine<br>3. Myroslava Zinchenko, Kyiv National University of Construction and Architecture, Ukraine<br>4. Andrii Biloshchytskyi, Astana IT University, Kazakhstan<br>5. Viktoriya Gonchar, Kyiv National Economic University named after Vadym Hetman, Ukraine<br>6. Vadym Pokolenko, Kyiv National University of Construction and Architecture, Ukraine<br>**MULTI-LEVEL COGNITIVE MODELING OF THE ORGANIZATIONAL AND TECHNOLOGICAL STRUCTURE OF CONSTRUCTION BASED ON INTEGRATED INFORMATION AND ANALYTICAL PLATFORMS** |
| ID 339 | 1. Viktor Morozov, Taras Shevchenko National University of Kyiv, Ukraine<br>**Engineering Management Models for Fixed-Budget IT Projects under Uncertainty and Nonlinear External Influences** |
| ID 342 | 1. Khrystyna Chupryna, Kyiv National University of Construction and Architecture, Ukraine<br>2. Iryna Ivakhnenko, Kyiv National University of Construction and Architecture, Ukraine<br>3. Oleksiy Mostovenko, Kyiv National University of Construction and Architecture, Ukraine<br>4. Yevhenii Biloshchytskyi, Astana IT University, Kazakhstan |

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| | 5. Oleksandr Kalinin, Kyiv National Economic University named after Vadym Hetman, Ukraine<br>6. Nina Petrukha, Kyiv National University of Construction and Architecture, Ukraine<br>**AI-BASED DECISION SUPPORT SYSTEM FOR SMART MANAGEMENT OF CONSTRUCTION ENTERPRISES** |
| ID 363 | 1. Vadym Ziuziun, Taras Shevchenko National University of Kyiv, Ukraine<br>2. Anastasiia Avramets, Taras Shevchenko National University of Kyiv, Ukraine<br>**Information System for Structuring and Analyzing Multimedia Data to Optimize Media Processes** |
| ID 375 | 1. Tugce SAVRAN, Gazi University, Turkiye<br>2. Erdal IRMAK, Gazi University, Turkiye<br>**Comparative analysis of BFO and PSO algorithms for optimal STATCOM placement** |
| ID 400 | 1. Gulnara Abitova, Astana IT University, Kazakhstan<br>2. Anuar Baitulakov, Astana IT University, Kazakhstan<br>3. Rakhman Shora, Astana IT University, Kazakhstan<br>4. Ibragim Galymzhanuly, Astana IT University, Kazakhstan<br>**Design of an Intelligent Smart Bus Stop System Using AI and Multimodal Interfaces** |
| ID 405 | 1. Anuar Baitulakov, Astana IT University, Kazakhstan<br>2. Alimzhan Yessenov, Astana IT University, Kazakhstan<br>3. Milena Kim, Astana IT University, Kazakhstan<br>4. Orisbay Abdiramanov, Astana IT University, Kazakhstan<br>5. Gulnara Abitova, Astana IT University, Kazakhstan<br>**Optimizing Production Processes in Construction Using Digital Twins and Neural Network Technologies** |
| ID 418 | 1. Sude Ozcan, Istanbul Technical University, Turkiye<br>2. Ibraheem Shayea, Istanbul Technical University, ITU, Turkiye<br>3. Gul Gabdulualitovna Dzhussupova , Ministry of Science and Higher Education of the Republic of Kazakhstan, Kazakhstan<br>4. Kassimova Botakoz Rahmetollaevna, L.N. Gumilyov Eurasian National University, Kazakhstan<br>**Machine Learning-Based Wind Power Forecasting and Automated Fault Detection Using SCADA Data** |
| **16:00** | **Coffee break** |
| **16:20<br>18:00** | **TRACK 2. TECHNOLOGY AND ENGINEERING MANAGEMENT<br>Venue- C1.2.139** |
| ID 451 | 1. Adejor Abiche, Astana IT university, Kazakhstan<br>2. Gehad Hamada, international IT university, Kazakhstan<br>3. Mohamed Hamada, Abu Dhabi University, UAE<br>**A Data-Driven Machine Learning Model for Operational Excellence Diagnostics in Business Enterprises** |
| ID 468 | 1. Elnara Khanafiyeva, Kazakh-British Technical University, Kazakhstan<br>**Digital Transformation in IT Project Management: The Impact of Cloud Technologies on Efficiency and Agile Performance** |
| ID 499 | 1. Assel Sultan, Kazakh-British Technical University, Kazakhstan<br>**Generative AI for Automating Homework Checking and Feedback in Smart School** |
| ID 512 | 1. Medet Mukushev, Astana IT University, Kazakhstan<br>2. Andrii Biloshchytskyi, Astana IT University, Kazakhstan<br>3. Temirlan Karibekov, Astana IT University, Kazakhstan<br>**A Conceptual Framework for a Predictive Safety-Oriented Smart Hospital Architecture** |

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| ID 517 | 1. Akmaral Makmova, KBTU, Kazakhstan<br>**Competitive Landscape Assessment in the E-commerce Sector** |
| ID 521 | 1. Erdal Irmak, Gazi University, Turkiye<br>2. Izviye Fatimanur Tepe, Gazi University, Turkiye<br>3. Aşkın Nur Aras, Gazi University, Turkiye<br>4. Seda Kul, Karamanoglu Mehmetbey University, Turkiye<br>**Data-driven forecasting of air handling unit energy consumption in data centers** |
| ID 545 | 1. Sergiy Gnatyuk, State University "Kyiv Aviation Institute", Ukraine<br>2. Nazerke Baisholan, State University "Kyiv Aviation Institute", Ukraine<br>3. Nazerke Baisholan, Al-Farabi Kazakh National University,Kazakhstan<br>**A Federated Extension of FraudX AI for Privacy Preserving Anomaly Detection** |
| ID 548 | 1. Tetiana Fesenko, Kharkiv National University of Radio Electronics, Ukraine<br>**AI Governance for Large-Scale Digital Memory Projects: a Lifecycle-Based Framework** |
| ID 550 | 1. Tetiana Fesenko, Kharkiv National University of Radio Electronics, Ukraine<br>**Synergizing Standards of Project Management with AI-Driven Support: Challenges and Opportunities for Future Project Governance** |

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| **14:10<br>16:00** | **TRACK 4. COMPUTATIONAL INTELLIGENCE (Room 1)**<br><br>**Muslim Sergaziyev, PhD, Associate Professor (Chair)**<br>**Beibit Abdikenov, PhD, Assistant Professor**<br>**Temirlan Karibekov, Doctor of Medical Sciences**<br>**Aliya Nugumanova, PhD**<br>**Section Secretary – Aizada Kaiyr, Aigerim Bazarkhanova**<br><br>**Venue- C1.2.122**<br><br>**https://us06web.zoom.us/j/83428134477?pwd=9Bd6KZWqwH5OGCOR2RQ05RhiDYDhmH.1** |
| **14:10 – 14:30** | **Invited Session Presentation:**<br>- Mohamed Elhoseny, PhD, Associate Professor at the University of Sharjah (Sharjah, United Arab Emirates) |
| ID 179 | 1. Nurshapagat Shapay, AITU, Kazakhstan<br>2. Nurzhamal Kashkimbayeva, AITU, Kazakhstan<br>3. Dinara Kaibassova, AITU, Kazakhstan<br>**Domain Adaptation Techniques for Plant Disease Classification: Bridging the Gap Between Laboratory and Field Conditions** |
| ID 180 | 1. Aigul Mimenbayeva, Astana IT University, Kazakhstan<br>**Cross-Domain Emotion Prediction and Speech Synthesis for the Kazakh Language** |
| ID 184 | 1. Dilara Abzhanova, Astana IT University, Kazakhstan<br>2. Sapar Toxanov, Astana IT University, Kazakhstan<br>**Geoinformation model of forecasting water resources in the regions of the Republic of Kazakhstan based on the integration of multi-criteria data** |
| ID 185 | 1. Sergey Kinzhikeyev, Astana IT University, Kazakhstan<br>2. Dung Nguyen, Le Quy Don Technical University, Vietnam<br>3. Tru Vu, Le Quy Don Technical University, Vietnam<br>4. Duc Duong, Le Quy Don Technical University, Vietnam<br>5. Dina Kinzhikeeva , Research Institute "Ghalam", Kazakhstan<br>6. Nurbol Sarsekeyev , LLP "Research Institute "Almatygenplan",Kazakhstan<br>**Design of a Non-Orthogonal Redundant Sensor Block and a Fault Detection and Isolation Algorithm for Inertial Navigation Systems** |
| ID 213 | 1. Adilbek Bekeshev, AITU, Kazakhstan<br>2. Aidiye Aidarbekov, Astana IT University, Kazakhstan<br>3. Askar Ospan, Astana IT University, Kazakhstan<br>**Data-Driven Prediction of Media Content Engagement Using Machine Learning Models** |
| ID 214 | 1. Makpal Zhartybayeva, ENU, Kazakhstan<br>2. Zhanar Oralbekova, AITU, Kazakhstan<br>**Semantic Top-K Tool Routing for Multilingual LLM Systems** |
| ID 215 | 1. Oleksii Matsiievskyi, Kyiv National University of Construction and Architecture, Ukraine<br>2. Ihor Bosenko, Kyiv National University of Construction and Architecture, Ukraine<br>3. Roman Mazurenko, Kyiv National University of Construction and Architecture, Ukraine<br>4. Igor Achkasov , Kyiv National University of Construction and Architecture, Ukraine<br>5. Roman Zhuk, Kyiv National University of Construction and Architecture, Ukraine<br>6. Yevhenii Biloshchytskyi, Astana IT University, Kazakhstan |

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| | **Multimodal Neural Interfaces for Human-in-the-Loop Verification of Digital Twins of Damaged Infrastructure** |
| ID 216 | 1. Ihor Bosenko, Kyiv National University of Construction and Architecture, Ukraine<br>2. Oleksii Matsiievskyi, Kyiv National University of Construction and Architecture, Ukraine<br>3. Yurii Naumenko, Kyiv National University of Construction and Architecture, Ukraine<br>4. Roman Mazurenko, Kyiv National University of Construction and Architecture, Ukraine<br>5. Tamara Liashchenko, Kyiv National University of Construction and Architecture, Ukraine<br>6. Yevhenii Biloshchytskyi, Astana IT University, Kazakhstan<br>**Machine Learning–Based Decision Support for Assessing the Recoverability of Damaged Infrastructure Objects** |
| ID 221 | 1. Adlet Bolatov, Astana IT University, Kazakhstan<br>2. Bolatzhan Kumalakov , Astana IT University, Kazakhstan<br>**Integrating Generative AI Across the Agile Software Development Lifecycle** |
| ID 224 | 1. Arman Issin, Astana IT University, Kazakhstan<br>2. Zhanar Akhmetova, Astana IT University, Kazakhstan<br>**Development of an Intelligent Demand Forecasting System for Restaurant Site Selection in Astana Using Machine Learning-Derived Feature Weighting via SHAP Analysis** |
| ID 230 | 1. Kalizhan Akhmetov, Astana IT University, Kazakhstan<br>2. Dinara Kaibassova , Astana IT University, Kazakhstan<br>**Impact of Dataset Bias and Artifacts on Deep Learning Models for Chest X-ray Image Analysis** |
| **16:00** | **Coffee break** |
| **16:20<br>18:00** | **TRACK 4. COMPUTATIONAL INTELLIGENCE (Room 1)**<br>**Venue- C1.2.122**<br><br>**https://us06web.zoom.us/j/83428134477?pwd=9Bd6KZWqwH5OGCOR2RQ05RhiDYDhmH.1** |
| ID 231 | 1. Yernar Madiyar, AITU, Kazakhstan<br>2. Abzal Kyzyrkanov, AITU, Kazakhstan<br>3. Alibek Orynbek, AITU, Kazakhstan<br>4. Dinara Bekmanova, UKGU, , Kazakhstan<br>**Intelligent Legal Assistant with Neural Semantic Retrieval and Neuro-Symbolic Reasoning** |
| ID 234 | 1. Askhat Takayev, Astana IT University, Kazakhstan<br>2. Dinara Kaibassova, Astana IT University, Kazakhstan<br>**Comparative Analysis of Ensemble Machine Learning Methods for Phishing URL Classification** |
| ID 249 | 1. Yaroslav Hozak, Taras Shevchenko national university of Kyiv, Ukraine<br>2. Sergiy Paliy, Taras Shevchenko national university of Kyiv, Ukraine<br>**ROI-SSD: Region of Interest Single Shot Detector** |
| ID 250 | 1. Zhumabek Sabit, Astana IT University, Kazakhstan<br>2. Azamat Serek, Astana IT University, Kazakhstan<br>**Gender-Specific Feature Asymmetry in Heart Disease Prediction: An Explainable AI Approach for High-Sensitivity Clinical Screening** |
| ID 252 | 1. Assel Shora, Astana IT University, Kazakhstan<br>2. Aigul Adamova, Astana IT University, Kazakhstan<br>**Adaptive Byzantine-Robust Aggregation for Privacy-Preserving Federated Learning in IoT Environments: An Empirical Evaluation** |

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| ID 257 | 1. Yoshiyuki Suimon, Keio University, Japan<br>**Generation of Pseudo Individual-Level Data Reflecting Statistical Characteristics of the Big Five Traits in Japan and LLM-Based Survey Simulation** |
| ID 258 | 1. Symbat Nurgaliyeva, Astana IT university, Kazakhstan<br>2. Muratali Amangali, Astana IT University, Kazakhstan<br>3. Makhmetova Kuralay, Astana IT University, Kazakhstan<br>4. Assiya Karatay, Astana IT University, Kazakhstan<br>5. Nazym Turysbek, Astana IT University, Kazakhstan<br>6. Nazerke Rustembek, Astana IT University, Kazakhstan<br>**Practical Implementation of Route Optimization and Real-Time Detection in an Intelligent Waste Monitoring System for Smart Cities** |
| ID 265 | 1. Dinmukhamed Baimakhanbet, SDU, Kazakhstan<br>2. Shirali Kadyrov, New Uzbekistan University, Tashkent, Uzbekistan<br>**Approximating Geodesic Structure in Graph Attention Networks via Heat Kernel Diffusion** |
| ID 276 | 1. Adilzhan Kereyev, K.Zhubanov Aktobe Regional University, Kazakhstan<br>2. Tairkhan Yessenkhan , K.Zhubanov Aktobe regional university, Kazakhstan<br>3. Vasif Nabiyev, Karadeniz Technical University, Turkiye<br>**Coordinate Transformation as a Method for Fisheye Image Correction in Computer Vision Systems** |
| ID 282 | 1. Ali Parwiz Baktash, Astana IT University, Kazakhstan<br>2. Kuanysh Bakirov, Faculty of Information Technology, Eurasian National University, Kazakhstan<br>3. Aruzhan Shoman, Astana IT University, Kazakhstan<br>4. Yan Kudashov, Astana IT University, Kazakhstan<br>5. Daniyar Dauletiya, Astana IT University, Kazakhstan<br>**Real-Time Tomato Leaf Disease Classification for Vertical Farming: Training on Public Data and Preliminary Field Validation** |
| ID 291 | 1. Xeniya Traxel, Astana IT University, Kazakhstan<br>2. Samat Tankeyev, Astana IT University, Kazakhstan<br>**Where Students Draw the Line Between AI Assistance and Cheating in Introductory Programming** |
| **14:10<br>16:00** | **TRACK 4. COMPUTATIONAL INTELLIGENCE (Room 2)**<br><br>**Muslim Sergaziyev, PhD, Associate Professor (Chair)**<br>**Beibit Abdikenov, PhD, Assistant Professor**<br>**Temirlan Karibekov, Doctor of Medical Sciences**<br>**Aliya Nugumanova, PhD**<br>**Section Secretary – Aizada Kaiyr, Aigerim Bazarkhanova**<br><br>**Venue- C1.2.121**<br><br>**https://us06web.zoom.us/j/85731574386?pwd=kfNunNV3JpXgCdV3gnt86u1m682KH8.1** |
| **14:10 – 14:30** | **Invited Session Presentation:**<br>- Abraham Althonayan, Professor, Brunel University London (London, United Kingdom) |
| ID 296 | 1. Tanzimul Alam Fahim, The University of North Carolina at Pembroke Pembroke, USA<br>2. Abrar Fahim, Islamic University of Technology, Bangladesh<br>3. Avijit Deb Nath , The University of Toledo, USA<br>4. Shirsendu Mondal, University of North Carolina at Pembroke, USA<br>5. Mohammad Shahin Uddin, International Islamic University Chittagong, Bangladesh |

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| | 6. Shakil Mia, Daffodil International University, Dhaka, Bangladesh<br>7. Md. Shakhauat Hossan Sumon, North South University, Bangladesh<br>**BrainFuseNet: Attention-Enhanced Deep Fusion for Interpretable and Generalized Brain Tumor MRI Classification** |
| ID 298 | 1. Serhii Dolhopolov, Kyiv National University of Construction and Architecture, Ukraine<br>2. Tetyana Honcharenko, Kyiv National University of Construction and Architecture, Ukraine<br>3. Yuriy Dudnyk, Kyiv National University of Construction and Architecture, Ukraine<br>4. Vladyslav Hots, Kyiv National University of Construction and Architecture, Ukraine<br>5. Anatolii Fesan, Kyiv National University of Construction and Architecture, Ukraine<br>6. Nursaya Batyr, Astana IT University, Kazakhstan<br>**Agentic AI-Driven Architecture for Dynamic Verification of Infrastructure Digital Twins** |
| ID 309 | 1. Marya Ryspayeva, Astana IT University, Kazakhstan<br>**Optimal Synthetic Data Ratio for GAN-Based Breast Cancer Classification** |
| ID 310 | 1. Arailym Tleubayeva, Astana IT University, Kazakhstan<br>2. Birganym Abilkhaiyr, Astana IT University, Kazakhstan<br>3. Azamat Orazgali, Astana IT University, Kazakhstan<br>4. Aday Shomanov, Astana IT University, Kazakhstan<br>5. Zhansaya Makhambetova, Astana IT University, Kazakhstan<br>6. Sabyr Berikuly, Astana IT University, Kazakhstan<br>**Document Segmentation in Legal Retrieval-Augmented Generation: An Empirical Study on Kazakh Legal Texts** |
| ID 311 | 1. Anton Kostin, Department of Electronic Computers Kharkiv National University of Radio Electronics, Ukraine<br>2. Olesia Barkovska, Department of Electronic Computers Kharkiv National University of Radio Electronics, Ukraine<br>3. Ihor Novoseltsev, Lytx<br>4. Mark Cherepovskyi, Department of Electronic Computers Kharkiv National University of Radio Electronics, Ukraine<br>5. Vladyslav Kholiev, Department of Electronic Computers Kharkiv National University of Radio Electronics, Ukraine<br>6. Anton Havrashenko, Department of Electronic Computers Kharkiv National University of Radio Electronic, Ukraine<br>**An Adaptive Hardware–Software System for Local Glass Dimming** |
| ID 313 | 1. Madiyar Khassen, Astana IT University, Kazakhstan<br>2. Aidiye Aidarbekov, Astana IT University, Kazakhstan<br>3. Askar Murat, Astana IT University, Kazakhstan<br>4. Gulmira Shakhmetova, Astana IT University, Kazakhstan<br>**Automated Long-Answer Grading via Knowledge-Grounded Retrieval and Segment-Level Entailment** |
| ID 323 | 1. Dinmukhammed Mynzhassar, Astana IT University, Kazakhstan<br>2. Zhanar Akhmetova, Astana IT University, Kazakhstan<br>**U-Net-Based Segmentation of Pulmonary Abnormalities in Chest X-rays: A Prototype for AI-Assisted Diagnostics Using MONAI and Cross-Validation on Multi-Source Datasets** |
| ID 326 | 1. Assylmurat Yeraliyev, Astana IT University, Kazakhstan<br>2. Nurzhamal Kashkimbayeva, Astana IT University, Kazakhstan<br>3. Dinara Kaibassova, Astana IT University, Kazakhstan<br>**Multimodal Data Fusion for District-Scale Crop Yield Prediction in Northern Kazakhstan** |

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| ID 327 | 1. Mukan Idrissov, Astana IT University, Kazakhstan<br>2. Nurzhamal Kashkimbayeva, Astana IT University, Kazakhstan<br>3. Dinara Kaibassova, Astana IT University, Kazakhstan<br>**Determining the Optimal Planting Time for Agricultural Crops in Northern Kazakhstan** |
| ID 332 | 1. Sanzhar Maulkan, AITU, Kazakhstan<br>2. Aigul Adamova, AITU, Kazakhstan<br>**Comparing Machine Learning and Deep Learning for Intrusion Detection in MQTT-Based Campus IoT Networks** |
| ID 334 | 1. David Novikov, Astana IT University, Kazakhstan<br>2. Aibek Raushanov, "Zaman Bank" JSC, Kazakhstan<br>3. Riza Akhitova, Astana IT University, Kazakhstan<br>**StudioGen: A Hybrid 3D-AI Workflow for Controllable Depth-Guided Studio Scenography** |
| **16:00** | **Coffee break** |
| **16:20<br>18:00** | **TRACK 4. COMPUTATIONAL INTELLIGENCE (Room 2)**<br>**Venue- C1.2.121**<br><br>**https://us06web.zoom.us/j/85731574386?pwd=kfNunNV3JpXgCdV3gnt86u1m682KH8.1** |
| ID 350 | 1. Dastan Sapargali, Astana IT University, Kazakhstan<br>2. Zharasbek Baishemirov, Astana IT University, Kazakhstan<br>**Intelligent Machine Learning Methods for Predicting Loan Approval Decisions** |
| ID 353 | 1. SAMAT ANUARBEK, SDU University, Kazakhstan<br>2. Shirali Kadyrov, New Uzbekistan University, Uzbekistan<br>**Hardy-Regularized Deep Neural Networks for Stable Function Approximation** |
| ID 359 | 1. Marat Nurtas, Institute of Ionosphere, IITU, Kazakhstan<br>2. Aidana Mergembayeva, IITU, Kazakhstan<br>**Satellite-Based Deep Learning models for Mineral Exploration** |
| ID 367 | 1. Askhat Yergaliyev, International Information Technology University, Kazakhstan<br>2. Daniyar Rakhimzhanov, AstanaIT University, Kazakhstan<br>3. Aigerm Mansurova, Astana IT University, Kazakhstan<br>4. Lyailya Baibulekova, University of International Business named after K. Sagadiyev, Kazakhstan<br>**Interpretable Multi-Agent Analysis of Spontaneous Multilingual Passenger Complaints for Smart Urban Transport Management** |
| ID 368 | 1. Mahdi Habibi, Nazarbayev University, Kazakhstan<br>2. Adnan Yazici, Nazarbayev University, Kazakhstan<br>**Comparative Evaluation of Retrieval-Only and LLM-Assisted RAG-HAR for Elderly Fall Detection** |
| ID 381 | 1. Diyar Mukhidenov, Astana IT University, Kazakhstan<br>2. Karlygash Makhmetova, Astana IT University, Kazakhstan<br>3. Nurlybek Taubakabyl, Astana IT University, Kazakhstan<br>**Application of RANSAC and DBSCAN Algorithms in Unity for Automated Lane Detection in Traffic Environments** |
| ID 388 | 1. Aruzhan Karatay, Astana IT University, Kazakhstan<br>2. Makpal Zhartybayeva, Astana IT University, Kazakhstan<br>**Instruction Fine-Tuning of Large Language Models for Structured Educational Response Generation** |
| ID 428 | 1. Zhasulan Abdigaliyev, Astana IT University, Kazakhstan<br>2. Alisher Shayakhmetov, Astana IT University, Kazakhstan |

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| | 3. Rostislav Shpakovskiy, Astana IT University, Kazakhstan<br>4. Ruslan Omirgaliyev, Astana IT University, Kazakhstan<br>**Balancing Accuracy and Interpretability in Explainable AI for Breast Disease Diagnosis** |
| ID 443 | 1. Oleksandr Kuchanskyi, Astana IT University, Kazakhstan<br>2. Zhanel Rymkhanova, Astana IT University, Kazakhstan<br>3. Rostyslav Lisnevskyi, Astana IT University, Kazakhstan<br>4. Myroslava Gladka, National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute", Ukraine<br>**Time-Weighted PageRank for Measuring Structural Embeddedness in Large-Scale Bibliographic Coupling Networks** |
| ID 447 | 1. Dias Ilyas, Astana IT University, Kazakhstan<br>2. Aigul Mimenbayeva, Astana IT University, Kazakhstan<br>**Sybyrla: End-to-End Low-Resource Kazakh Speech Recognition Using Whisper with Multilingual Code Switching** |
| ID 448 | 1. Tumar Togyssova, Narxoz University, Kazakhstan<br>2. Sabrina Yessenova, Narxoz University, Kazakhstan<br>3. Ayaulym Zhaksylyk, Narxoz University, Kazakhstan<br>4. Serik Batyrkhan, Narxoz University, Kazakhstan<br>5. Yershat Sapazhanov, Narxoz University, Kazakhstan<br>**A Smart SIS Module for Course Planning: Curriculum-Aware Collaborative Filtering with Explainable Recommendations** |
| **19:00** | **Cultural Program** |

**TECHNICAL SESSIONS**
**15 May 2026 (Friday)**
**(Time zone UTC+5, Astana time)**

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| **10:00<br>18:00** | **TECHNICAL SESSIONS** |
| **10:00<br>13:00** | **TRACK 1. COMPUTER SCIENCE**<br><br>**Kumar Praveen, PhD, Professor (Chair)**<br>**Didar Yedilkhan, PhD, Professor**<br>**Section Secretary –Nurbay Kairbek, Daniyar Amantayev**<br><br>**Venue C.1.2.227**<br><br>**https://us06web.zoom.us/j/87091996497?pwd=bpqrvCZIfQBGinAA3M6zxnrR6Rk5L6.1** |
| ID 361 | 1. Zhansaya Myrzakul , al-Farabi Kazakh National University, Kazakhstan<br>**Development and Performance Evaluation of a Modified Homomorphic Encryption Scheme for ESP32-Based Resource-Constrained IoT Devices** |
| ID 372 | 1. Saltanat Amirgaliyeva, Laboratory of Artificial Intelligence and Robotics named after academician Amirgaliyev Y.N Institute of Information and Computational Technologies Institute of Automation and Information Technology, Kazakhstan<br>2. Azemsha Siarhei , Laboratory of Artificial Intelligence and Robotics named after academician Amirgaliyev Y.N Institute of Information and Computational Technologies Institute of Automation and Information Technology, Kazakhstan<br>3. Irina Kravchenya, Laboratory of Artificial Intelligence and Robotics named after academician Amirgaliyev Y.N Institute of Information and Computational Technologies Institute of Automation and Information Technology, Kazakhstan<br>4. Gulaiym Bayekova, IITU, Kazakhstan<br>5. Aisulu Ataniyazova, Laboratory of Artificial Intelligence and Robotics named after academician Amirgaliyev Y.N Institute of Information and Computational Technologies Institute of Automation and Information Technology, Kazakhstan<br>6. Ilya Audzeyenka , LLP “IBA Astana Dev” , Kazakhstan<br>**Iterative Timetable Coordination for Overlapping Transit Routes with Discrete-Event Simulation** |
| ID 373 | 1. Anna Kolomiiets, KNU, Ukraine<br>2. Denis Popov, KNU, Ukraine<br>**Development and Implementation of an Intelligent Information System for Healthy Eating Habit Formation Based on LLM-Analysis** |
| ID 380 | 1. Askar Oralkhan, Kazakh-British Technical University, Kazakhstan<br>2. Temirlan Zhaxalykov, Narxoz University, Kazakhstan<br>**Experimental Evaluation of Multipartite Entanglement Across Trapped-Ion and Superconducting NISQ Architectures** |
| ID 387 | 1. Zaur Berdibekov, Astana IT University, Kazakhstan<br>2. Beksultan Boltay, Astana IT University, Kazakhstan<br>**Methods and tools for monitoring and analyzing internet quality in the Smart City Concept** |
| ID 389 | 1. Altynbek Seitenov, Astana IT University, Kazakhstan<br>**Implementation of a Tokenized Access Control Mechanism with ZKP Verification for Telemedicine Systems** |

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| ID 390 | 1. Batyrkhan Aliyev, Astana IT University, Kazakhstan<br>2. Samat Mukhanov, Astana IT University, Kazakhstan<br>3. Balziya Aldosh, Astana IT University, Kazakhstan<br>4. Ibraheem Shayea, Istanbul Technical University, Turkiye<br>**Comparative Analysis of Machine Learning Models for Cyber Risk Management to Enhance the Sustainability and Security of Digital Transformation** |
| ID 399 | 1. Pakizar Shamoi, KBTU, Kazakhstan<br>2. Aleksandr Semerikov, KBTU, Kazakhstan<br>**Event-Level Emotion Recognition in the Wild Using Deep Facial Expression Analysis** |
| ID 410 | 1. Damira Alikhan, Astana IT university<br>**A comparative study of anomaly detection methods in adaptive educational platforms** |
| ID 412 | 1. Vyacheslav Takizhanov, Astana IT University<br>2. Aldiyar Ibragimov, Astana IT University<br>**Simulation-Based Robustness Assessment of Astana's Bus Network Under Random and Targeted Failures** |
| ID 416 | 1. Nursulta Bukenbayev, Astana IT University<br>2. Nurbol Sembayev, Astana IT University<br>3. Askar Seralinov, Astana IT University<br>4. Ruslan Omirgaliyev, Astana IT University<br>5. Shynar Zhussipkaliyeva, Astana IT University<br>**Comparative Analysis of Security Vulnerabilities in AI-Generated Versus Human-Written Python Code: An Automated Static Analysis Approach** |
| ID 420 | 1. Daniil Alexandrov, Astana IT University<br>2. Dinara Kaibassova , Astana IT University<br>**News-Driven Cryptocurrency Market Modeling under Abnormal and Absolute Reaction Frameworks** |
| ID 421 | 1. Dias Berlibek, L.N. Gumilyov Eurasian National University<br>2. Aigul Shaikhanova, L.N. Gumilyov Eurasian National University<br>3. Arailym Medetbek, Astana IT University<br>**Correlation-Weighted Logistic Risk Model for Explainable Phishing Detection** |
| ID 425 | 1. Shynbolat Unaibayev, Astana IT University<br>2. Sagyndyk Suleimanov, Astana IT University<br>3. Olga Ussatova, Astana IT University, Institute of Information and Computing Technologies<br>4. Akzhibek Amirova, Astana IT University<br>5. Begimbayeva Yenlik, Astana IT University, Energo University<br>**Homomorphic Encryption in Multi-Factor Authentication: A Partial Homomorphic Encryption Approach to One-Time Password Protection** |
| ID 427 | 1. Nursultan Khaimuldin, Astana IT University<br>2. Nurgissa Kabarbek, Astana IT University<br>3. Abulkhair Islamov, Astana IT University<br>4. Zhansultan Salman, Astana IT University<br>5. Dilnaza Maratova, Astana IT University<br>6. Bexultan Turgunov, Astana IT University<br>**An Intelligent Approach to Building a Scalable Geospatial Data Platform with Continuous Delivery and Dynamic Scaling** |
| ID 429 | 1. Mariyam Abu, Astana IT University<br>**Evaluation Protocol for Morphology-Tolerant Predictive Text in Kazakh Using N-gram Models** |
| **13:00** | **Lunch Break** |
| **14:00<br>16:00** | **TRACK 1. COMPUTER SCIENCE<br>Venue C.1.2.227** |

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| ID 431 | 1. Aizhan Omarova , «Institute of High Technologies» LLP<br>2. Bekarys Nurzhaubaev, CyberTech<br>3. Samat Kairambayev, NAC “Kazatomprom” JSC<br>4. Murat Zhakenov, “Digital Heritage of Eurasia” LLP<br>5. Botakoz Kassimova, L.N. Gumilyov Eurasian National University<br>6. Olzhas Konakbayev, Research and Innovation Center "CyberTech"<br>**Efficient Archiving and Robust Detection of Post-Mining Subsidence in Satellite Data** |
| ID 445 | 1. Mirwais Mohebi, Al-Farabi Kazakh National University<br>2. Aiman Bekturganova, Al-Farabi Kazakh National University<br>3. Sarsenbek Zhussupbekov, Al-Farabi Kazakh National University<br>4. Jandos Amankulov, Kazakh Institute of Oncology and radiology<br>5. Zhanar Aukazhiyeva, ALT University<br>6. Moldir Kuatova, Joldasbekov Institute of Mechanics and Engineering<br>**Hybrid Quantum–Classical Neural Network Framework for Sleep Efficiency Classification** |
| ID 465 | 1. Dana Orenkyzy, Astana IT University<br>**Development of methods and algorithms for intelligent clustering of short texts** |
| ID 467 | 1. Manshuk Nagymetkyzy, Kazakh-British Technical University<br>2. Alibek Bisembaev, Kazakh-British Technical University<br>**AI-Based Decision Making Tools for Enhancing Ethical Leadership and Stakeholder Engagement: Evidence from ESG Workforce and Social Metrics** |
| ID 476 | 1. Magzhan Kuanyshbek, Kazakh-British Technical University<br>2. Samat Mukhanov , Astana IT University<br>3. Dauren Sagidullauly, Astana IT University<br>4. Seilkhanova Kymbat, Astana IT University<br>**Comparative Analysis of Structural Complexity in Feature-Oriented Frontend Application Architectures: Feature-Sliced Design and the Feature-Based Modular Approach** |
| ID 484 | 1. Zharasbek Baishemirov, Kazakh-British Technical University<br>2. Dina Ospanova, Astana IT University<br>3. Beibut Amirgaliyev, Astana IT University<br>4. Didar Yedilkhan, Astana IT University<br>**Evaluating Physics-Informed and Data-Driven Recurrent Networks for Heatwave Prediction** |
| ID 488 | 1. Nurzhan Saktaganov, Kazakh-British Technical University<br>2. Samat Mukhanov, Astana IT University<br>3. Kymbat Seilkhanova, Astana IT University<br>4. Saule Amanzholova, Astana IT University<br>**Machine Learning–Driven UEBA for Behavioral Access Control in Zero Trust Client Ecosystems** |
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| ID 501 | 1. Sayan Nurmukhambet, Astana IT University<br>**Subgroup Calibration and Mastery Decision Errors in Knowledge Tracing** |

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| ID 503 | 1. Aman Mussa, al-Farabi Kazakh National University<br>**Synthetic Reality at Scale: The Technical Evolution and Security Crisis of Deepfakes** |
| **16:00** | **Coffee break** |
| **16:20<br>18:00** | **TRACK 1. COMPUTER SCIENCE<br>Venue C.1.2.227** |
| ID 506 | 1. Dina Kantayeva, Astana IT University<br>2. Akbar Beshli-ogly , Astana IT University<br>3. Svitlana Biloshchytska, Astana IT University<br>**Comparative Analysis of Methods for Near-Duplicate Detection in Kazakh-Language Documents** |
| ID 520 | 1. Nurdaulet Khaimuldin , Astana IT University<br>**An Intelligent Approach to Building a Scalable Geospatial Platform for Separate Waste Collection with Photo-Based AI Classification and Disposal Recommendations** |
| ID 530 | 1. Amina Adilkhan, Astana IT University<br>2. Beibut Amirgaliyev, Astana IT University<br>**Methods and Models for Developing an AI Agent for Monitoring Consumer Behaviour Trends and Detecting Market Anomalies** |
| ID 533 | 1. Damir Kenzhe, Astana IT University<br>2. Muslim Sergaziyev, Astana IT University<br>**Tourist Route Optimization With Bus Connectivity Constraints Using Genetic Algorithms: Crossover, Mutation, and Selection Analysis** |
| ID 549 | 1. Nataliia Yehorchenkova, Kyiv National University of Construction and Architecture<br>2. Oleksii Yehorchenkov, Comenius University<br>**Preparing Spatial Planning for AI: Key Challenges, Gaps, And Opportunities In Territorial Decision Support** |

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| **10.00<br>13.00** | **TRACK 4. COMPUTATIONAL INTELLIGENCE**<br><br>**Muslim Sergaziyev, PhD, Associate Professor (Chair)**<br>**Beibit Abdikenov, PhD, Assistant Professor**<br>**Temirlan Karibekov, Doctor of Medical Sciences**<br>**Aliya Nugumanova, PhD**<br>**Section Secretary – Aizada Kaiyr, Aigerim Bazarkhanova**<br><br>**Venue- C1.2.122**<br><br>**https://us06web.zoom.us/j/82731232131?pwd=5qAFcvuLaVmyx9Zb6K2yXVJhX8bwin.1** |
| ID 458 | 1. Nurym Kaiyrkhan, Astana IT university, Kazakhstan<br>**Decision-Focused Stochastic Optimization for AI-Driven Pharmaceutical Supply Chains in Kazakhstan** |
| ID 470 | 1. Batyrzhan Akhmetzhanov, Astana IT University, Kazakhstan<br>2. Maxim Kirik, Astana IT University, Kazakhstan<br>3. Daniyar Abdrakhmanov, Astana IT University, Kazakhstan<br>4. Rassul Abilev, Astana IT University, Kazakhstan<br>**Multi-Level Optical–Radar Correlation Decoupling Framework for Hidden Land Surface Change Detection** |
| ID 477 | 1. Zhanerke Pernesh, Astana IT University, Kazakhstan<br>2. Alisher Dautov, Astana IT University, Kazakhstan<br>3. Marlen Amanbayev, Astana IT University, Kazakhstan<br>4. Aigul Mimenbayeva, Astana IT University, Kazakhstan<br>**Convolutional Neural Networks with Transfer Learning for Three-Class Lung CT Classification** |
| ID 483 | 1. Dinara Akimova, AITU, Kazakhstan<br>**Development of an Explainable Machine Learning Framework for Cyberattack Detection Using Multiple Interpretation Techniques** |
| ID 486 | 1. Zhamilya Abdildanova, Kazakh-British Technical University, KBTU, Kazakhstan<br>2. Aruzhan Seitkazieva, Kazakh-British Technical University, KBTU, Kazakhstan<br>**Backward- and Forward-Looking Portfolio Risk Measures: An XGBoost-Based Volatility Forecasting Approach** |
| ID 487 | 1. Akerke Akhpanbayeva, Astana IT University, Kazakhstan<br>**Comparative Analysis of Deep Learning Architectures for Forensic Anomaly Detection Within Digital Communication Platforms: A Proof-of-Concept Study** |
| ID 495 | 1. Izbassar Orynbassar , Atyrau University named after Kh.Dosmukhamedov, Kazakhstan<br>2. Assylbek Gizatov, Atyrau University named after Kh.Dosmukhamedov , Kazakhstan<br>3. Nuraly Kituyev, Nazarbayev University, Kazakhstan<br>4. Batyr Kenzheakhmetov, Astana IT University, Kazakhstan<br>**Aqyl Jol: An AI-Based System for Urban Traffic Management and Municipal Fleet Coordination** |
| ID 497 | 1. Nurdaulet Kabdygaliyev, Atyrau Oil and Gas University, Kazakhstan<br>2. Akmaral Abdigaliyeva, Atyrau Oil and Gas University, Kazakhstan<br>3. Tolganay Myrzakeldi, Atyrau Oil and Gas University, Kazakhstan<br>4. Shynar Kodanova, Atyrau Oil and Gas University, Kazakhstan<br>5. Gulnaz Dossanova, Atyrau Oil and Gas University, Kazakhstan<br>6. Farida Izgaliyeva, Atyrau Oil and Gas University, Kazakhstan |

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| | **Explainable Machine Learning for Medical Diagnosis: A Comparative Study of SHAP, LIME and Grad-CAM Methods** |
| ID 508 | 1. Daniyar Rakhimzhanov, Astana IT University, Kazakhstan<br>2. Dariya Khussainova, Astana IT University, Kazakhstan<br>3. Ayana Ussenbayeva, Astana IT University, Kazakhstan<br>4. Dana Otepova , Astana IT University, Kazakhstan<br>5. Timur Orazov, Astana IT University, Kazakhstan<br>**Heterogeneous EntityExtraction for Geotagging and Spatio-Temporal Analysis of Public TransportComplaints** |
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| ID 526 | 1. Ravi Rao, Fairleigh Dickinson University, USA<br>**A Comprehensive Study of Prompt Engineering and Fine-Tuning using Quantized Low Rank Adaptation for Medical Calculator Implementation on MedCalc-Bench** |
| ID 527 | 1. Aigerim Kauldasheva, KBTU, Kazakhstan<br>**Hybrid Neural–Symbolic Legal Knowledge Graph Modeling of Cross-Act Statutory Dependencies in Tax Law** |
| ID 531 | 1. Danila Khlebokazov, KBTU, Kazakhstan<br>2. Nurkhan Tashimov, KBTU, Kazakhstan<br>3. Pakizar Shamoi, KBTU, Kazakhstan<br>**Emoji–Emotion Ranking System Using Twitter Data** |
| ID 532 | 1. Raiymbek Khalmuradov, KBTU, Kazakhstan<br>2. Muragul Muratbekova, KBTU, Kazakhstan<br>3. Elnara Kadyrgali, KBTU, Kazakhstan<br>4. Pakizar Shamoi, KBTU, Kazakhstan<br>**Comparative Evaluation of Machine Learning Models for Audio and Lyrics-Based Music Emotion Recognition** |
| ID 536 | 1. Dinara Akimova, AITU, Kazakhstan<br>**AI-Enhanced Tesla Lamp Entropy Generation System for Cryptographic Applications** |
| ID 537 | 1. Arailym Tleubayeva, Astana IT University, Kazakhstan<br>2. Temirlan Meiramkhanov, Astana IT University, Kazakhstan<br>3. Şadi Evren Şeker, Istanbul University, Turkiye<br>4. Pinar Sarisaray Boluk, Istanbul University, Turkiye<br>**Temporal Dynamics of Lexical and Semantic Novelty in Scientific Abstracts: Kazakhstan-Related Publications** |
| ID 541 | 1. Torebek Azbergen, Kazakh-British Technical University, Kazakhstan<br>2. Arailym Tleubayeva, Astana IT University, Kazakhstan<br>3. Askar Aituov, Kazakh-British Technical University, Kazakhstan<br>**Calibration-Aware Gradient Boosting with Temporal Behavioral Features for Anti-Money Laundering Detection** |
| ID 233 | 1. Lesia Sorokina, Kyiv National University of Construction and Architecture, Ukraine<br>2. Andrii Rosynskyi, Kyiv National University of Construction and Architecture, Ukraine<br>3. Daniil Podkopaiev, Kyiv National University of Construction and Architecture, Ukraine<br>4. Nursaya Batyr, Astana IT University, Kazakhstan |

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| | 5. Oleh Onofriichuk, Academician Stepan Demianchuk International University of Economics and Humanities, Ukraine<br>6. Yliia Krychevs'ka, Kyiv National University of Construction and Architecture, Ukraine<br>7. Fuzzy Logic Simulation of Temporary Retail Structures: Modeling Economic Resilience in Urban Systems |
| **13:00** | **Lunch Break** |
| **18:00** | **Plenary session: conference results. Conference closing**<br>**https://us06web.zoom.us/j/82093240598?pwd=gHtfb3cYezGtXqW7t4BDBHjVuygCaO.1** |
| **19:00** | **City tour (optional)** |

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| Nurkhat | Zhakiyev | Astana IT University |
| Nursultan | Khaimuldin | Astana IT University |
| Nursultan | Mussakhanuly | Astana IT University |
| Nurzhamal | Kashkimbayeva | Astana IT University |
| Nurzhan | Duzbayev | International University of Information Technology |
| Nurzhan | Mukazhanov | Satbayev University |
| Oleksandr | Kuchanskyi | Astana IT University |
| Oleksii | Kolesnikov | TSNUK |
| Olga | Abramkina (Manankova) | International Information Technology University |
| Olga | Ussatova | Institute of Information and Computational Technologies |

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|---|---|---|
| Olzhas | Mukhmetov | Astana IT University |
| Pakizar | Shamoi | Kazakh-British Technical University |
| Parbhat | Gupta | SRM Institute of Science and Technology, Uttar Pradesh |
| Prateek | Mittal | Thapar Institue of Engineering and Technology |
| Praveen | Kumar | Astana IT University |
| Pritika | Patil | Ramrao Adik Institude of technology, Nerul |
| Rakhymzhan | Kazbek | Astana IT University |
| Rostyslav | Lisnevskyi | Astana IT University |
| Rozamgul | Niyazova | Astana IT University |
| Ruslan | Omirgaliyev | Astana IT University |
| Ruslan | Tormosov | Astana IT University |
| Sabina | Saleshova | Astana IT University |
| Saida | Smakova | Kazakh National University of Sport |
| Samat | Kassabek | Astana IT University |
| Samat | Mukhanov | Astana IT University |
| Saule | Amanzholova | Astana IT University |
| Saule | Belginova | University Turan |
| Saya | Sapakova | International University of Information Technology |
| Seema | Rawat | Astana IT University |
| Sergiy | Bronin | Vilnius University |
| Serik | Joldasbayev | International information technology university |
| Sharafatdin | Yessirkepov | Astana IT University |
| Shynar | Akhmetzhanova | Astana IT University |
| Shyryn | Tutkyshbayeva | Astana IT University |
| Sravanthi | Kondoju | Target |
| Sridevi | Tharanidharan | King Khalid University |
| Sultan | Alpar | La Rochelle University |
| Sultan | Abylkairov | Astana IT University |
| Sumanth | Banakar | |
| Sumit | Bansal | Thapar Institute of Engineering and Technology |
| Svitlana | Biloshchytska | Astana IT University |
| Symbat | Nurgaliyeva | L.N. Gumilyov Eurasian National University |
| Talgat | Sembayev | Astana IT University |
| Tetiana | Babenko | International University of Information Technology |
| Tetiana | Fesenko | Kharkiv National University of Radio Electronics |
| Tetiana | Babenko | International University of Information Technology |
| Tilek | Zhumabek | Astana IT University |
| Tolganay | Chinibayeva | International University of Information Technology |
| Toreniyaz | Shomenov | Astana IT University |
| Valentin | Malykh | International University of Information Technology |
| Venkatesh | Ankarla Sri Ramuloo | |
| Vera | Yermakova | International University of Information Technology |
| Vijay | Velmurugan | Rajiv Gandhi National Institute of Youth Development |
| Yeldos | Zhandaulet | Astana IT University |
| Yelena | Bakhtiyarova | International Information Technology University |
| Yenlik | Begimbayeva | Astana IT University |
| Yenlik | Begimbayeva | Energo University |

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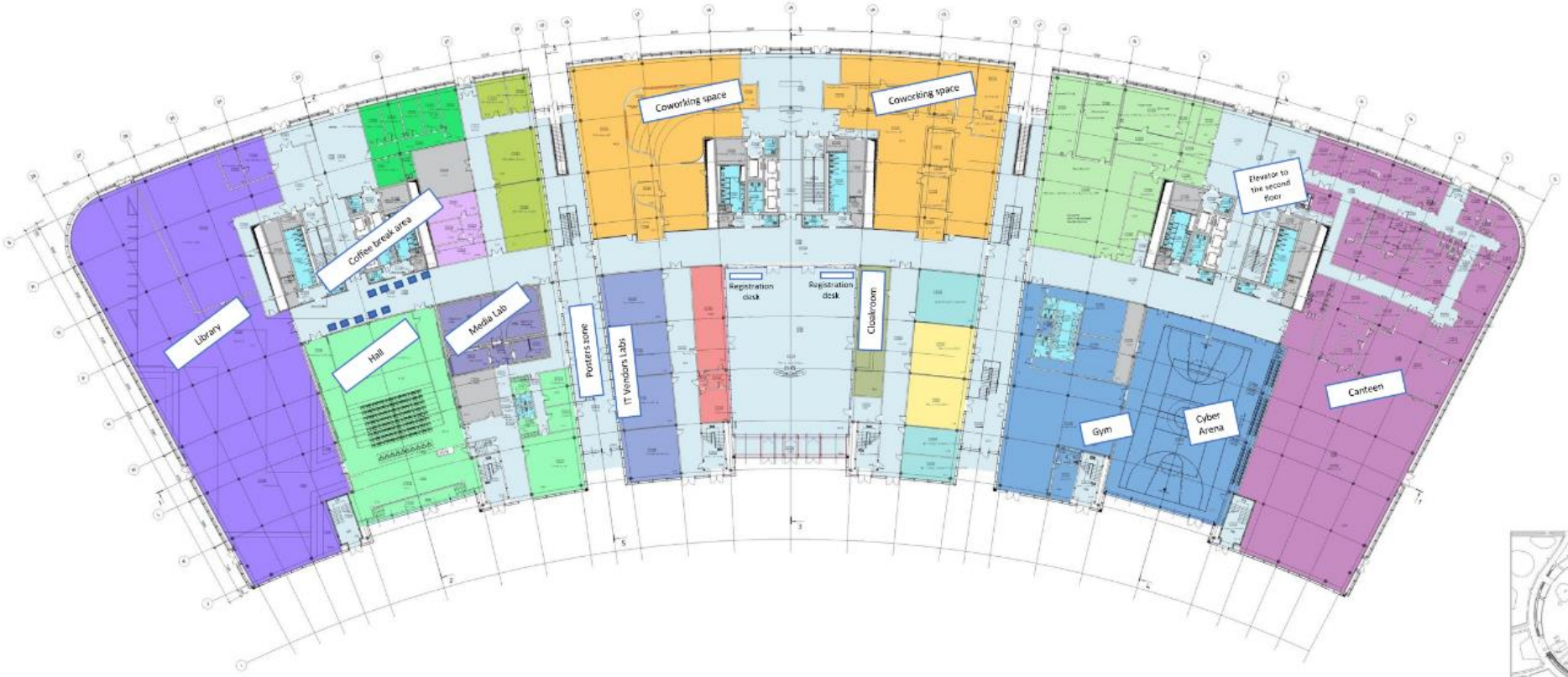
|---|---|---|
| Yerkanat | Kanafin | Astana IT University |
| Yermek | Alimzhanov | Astana IT University |
| Yuliia | Riabchun | Kyiv National University of Construction and Architecture |
| Yuliya | Idiyatova | Astana IT University |
| Yurii | Andrashko | Uzhhorod National University |
| Zarina | Kukhayeva | Astana IT university |
| Zhanar | Akhmetova | Astana IT University |
| Zhanar | Oralbekova | Astana IT University |
| Zhanar | Lamasheva | Astana IT University |
| Zhanat | Karashbayeva | Astana IT University |
| Zhanerke | Katrenova | Astana IT University |
| Zhanna | Sadirmekova | Astana IT University |
| Zhannur | Akhatova | Astana IT University |
| Zhannura | Manapbayeva | International Information Technology University |
| Zhansaya | Bekaulova | International University of Information Technology |
| Zharasbek | Baishemirov | Astana IT University |
| Zheniskul | Zhantassova | Department of Computer Modeling and Information Technology, Sarsen Amanzholov East Kazakhstan University |
| Zhibek | Sarsenova | Astana IT University |
| Zhuldyz | Basheyeva | Astana IT University |

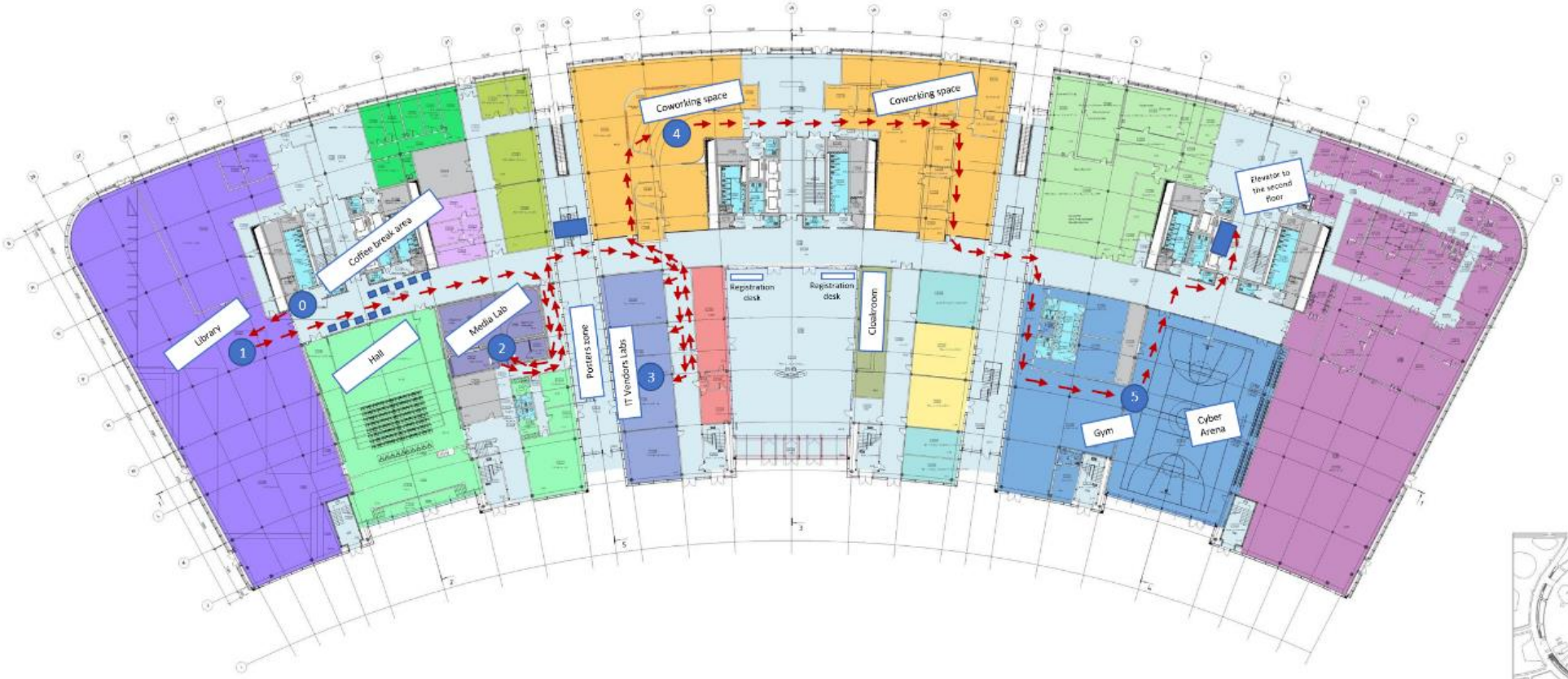
# План-схема 1 -этажа



## Условные обозначения

- Лекционные аудитории
- Зона лаборатории
- Кафетерий
- Актовый зал
- Архив
- Технические помещения и складские помещения
- Компютерные классы
- Библиотека
- Спортивная зона
- Медпункт
- Санузлы
- Гардеробная
- Центр инновационных технологий
- Зона столовой
- Студенческий клуб и студии
- Хозяйственный департамент
- Коридоры
- Центр обслуживания студентов

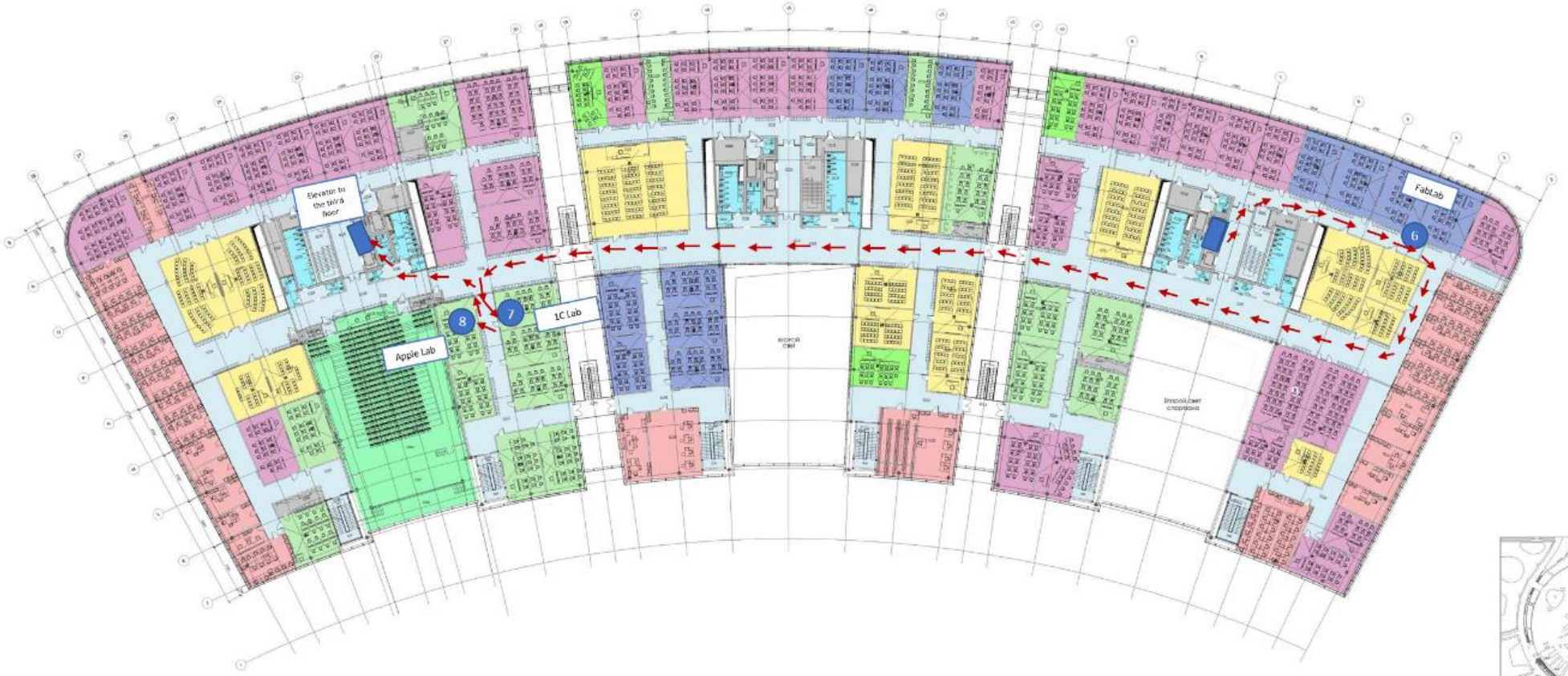
## План-схема 1 -этажа



## Условные обозначения

- Лекционные аудитории
- Зона лаборатории
- Кафетерий
- Актовый зал
- Архив
- Технические помещения и складские помещения
- Компютерные классы
- Библиотека
- Спортивная зона
- Медпункт
- Санузлы
- Гардеробная
- Центр инновационных технологий
- Зона столовой
- Студенческий клуб и студии
- Хозяйственный департамент
- Коридоры
- Центр обслуживания студентов

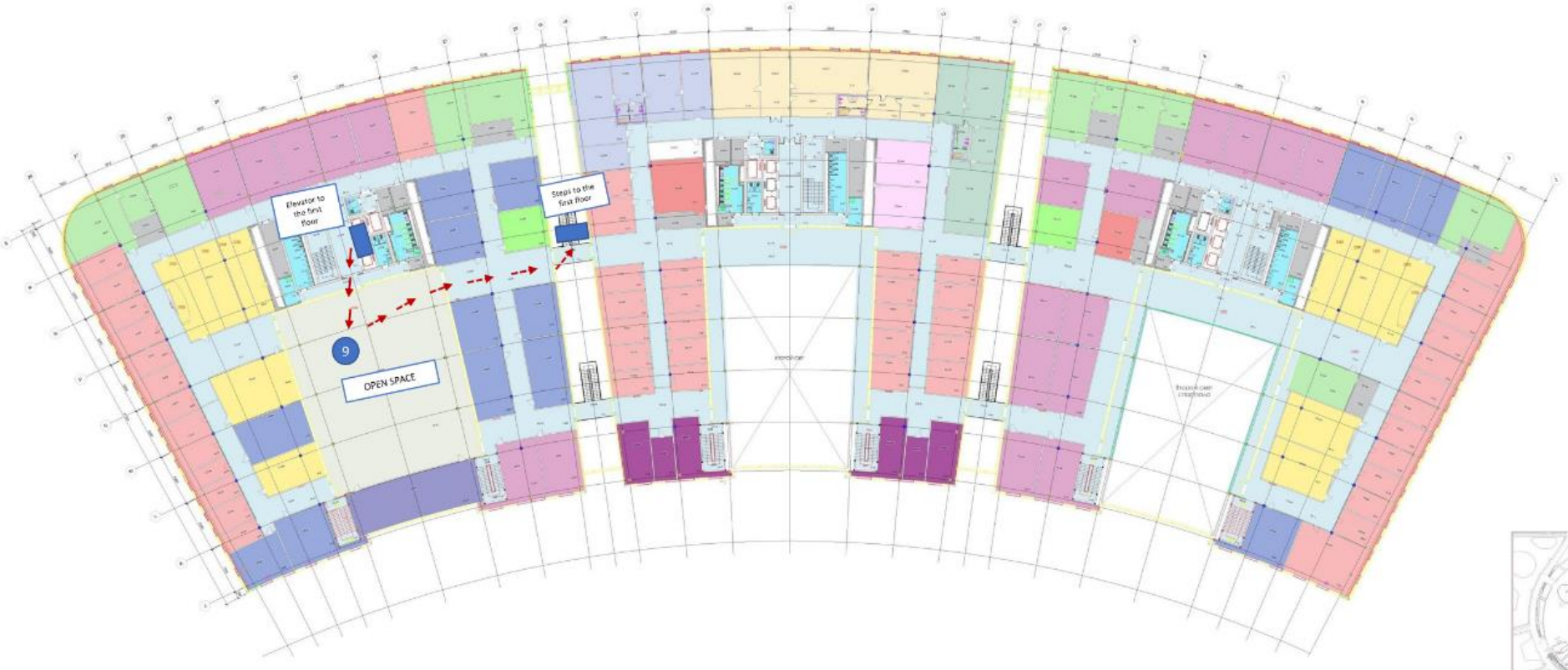
## План-схема 2 -этажа



## Условные обозначения

- Лекционные аудитории
- Компьютерные классы
- Администрация
- Актовый зал
- Коридоры и лестничные клетки тамбуры
- Аудитории практические
- Зона лаборатории
- Зона дистанционного обучения
- Санузлы, ПУИ
- Технические и складские помещения

## План-схема 3 -этажа



## Условные обозначения

- Лекционные аудитории
- Аудитории практические
- Компютерные классы
- Зона лаборатории
- Зона дистанционного обучени
- Коворкинг
- Протекторат
- Администрация
- Директор ОФ "ФОНН"
- Заместитель директора ОФ "ФОНН"
- Ректорат
- Кафетерий
- Помещение дс
- Переговорные
- Санузлы, ПУИ
- Коридоры и лестничные клетки тамбуры
- Технические и складские помещения