

ORGANIZERS

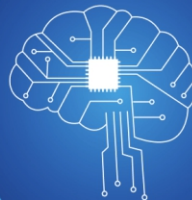


SIST 2022

2022 International Conference on Smart
Information Systems and Technologies

CONFERENCE PROGRAM

Nur-Sultan Kazakhstan
28-30 April 2022



**«2022 INTERNATIONAL CONFERENCE ON SMART INFORMATION SYSTEMS AND
TECHNOLOGIES»**

HONORARY CO-CHAIRS OF THE CONFERENCE:

Askhat Aimagambetov, Minister of Education and Science of the Republic of Kazakhstan, Kazakhstan (as agreed)

Bagdat Musin, Minister of Digital Development, Innovation and Aerospace Industry of the Republic of Kazakhstan, Kazakhstan (as agreed)

Dinara Kulibayeva, Doctor of Pediatric Sciences, Academician of the National Academy of Sciences, Professor, Director of the Public Foundation "Nursultan Nazarbayev Education Foundation", Kazakhstan

Svetlana Murzabekova, Ph.D., IPMA (A), MBA, First Deputy Director of the Public Foundation "Nursultan Nazarbayev Education Foundation", Kazakhstan

CONFERENCE CO-CHAIRS:

Carsten Wolff - Professor, Doctor, Dortmund University of Applied Sciences and Arts, Germany

Darkhan Akhmed-Zaki - Professor, Doctor of Technical Sciences, Rector of Astana IT University, Kazakhstan

CO-CHAIRS OF THE TECHNICAL PROGRAM COMMITTEE:

Andreas Pester - Professor, Carinthian University of Applied Sciences, Austria

Andrii Biloshchytskyi - Doctor of Technical Sciences, Professor, Astana IT University, Kazakhstan

PLENARY SESSION
APRIL 28 (Thursday)

Venue: AITU Assembly Hall

Meeting ID: [991 5752 8669](#)

Passcode: 589971

10:00	Welcome speech <ol style="list-style-type: none"> 1. <i>Askhat Aimagambetov</i>, Minister of Education and Science of the Republic of Kazakhstan - "Digitalization of education" (TBC) 2. <i>Bagdat Musin</i>, Minister of Digital Development, Innovation and Aerospace Industry of the Republic of Kazakhstan - "Digitalization of education" (TBC) 3. <i>Altay Kulginov</i>, Akim of Nur-Sultan (TBC) 4. <i>Galymkair Mutanov</i>, Academician of the National Academy of Sciences of the Republic of Kazakhstan, Professor, Doctor of Technical Sciences, Vice-President of the National Academy of Sciences, Acting General Director of the Institute of Information and Computing Technologies, Almaty 5. <i>Askar Nurpeisov</i>, Public Foundation "Nursultan Nazarbayev Education Fund" (TBC) 6. <i>Darkhan Akhmed-Zaki</i> - Professor, Doctor of Technical Sciences, Rector of Astana IT University, Kazakhstan
	Plenary session
10:30	<i>Botagoz Kasabek</i> , Head of the Department of Digitalization and Public Services of the Akimat of Nur-Sultan (Kazakhstan)
10:50	<i>Ravil Mukhamediev</i> , doctor of engineering sciences, professor, chief researcher of IIHT MES RK, (Kazakhstan) «From classical machine learning to deep neural networks»
11:10	<i>Sergey Bushuyev</i> , Doctor of Technical Sciences, Professor, Kyiv National University of Construction and Architecture (Ukraine) «Development of Digital Intelligence Society on the Basis of Global Trends»
11:30	<i>Andrii Biloshchytskyi</i> , Doctor of Technical Sciences, Professor, Vice-Rector for Science and Innovation of Astana IT University (Kazakhstan) "Scientific research activity of Astana IT University"
11:50	<i>Nurken Mussabayev</i> , Vice-Rector of Digitalization, Kenzhegali Sagadiyev University of International Business (Kazakhstan) «Digital Transformation of the University of International Business»
12:10	<i>Danil Lebedev</i> , Ph.D., associate professor, Vice-Rector for Digitalization for Astana IT University, (Kazakhstan) "Development of an information system within the concept of the Digital University"
12:30	<i>Essam Shehab</i> , Professor, Head of Mechanical and Aerospace Engineering Department, Nazarbayev University, (Kazakhstan) "Industrial Digitalization Applications in World-Class Aerospace Companies"
12:50	<i>Andreas Pester</i> , Doctor of Technical Sciences, Professor, (Austria), <i>Sergiy Bronin</i> , Ph.D., associate professor, Taras Shevchenko National University of Kyiv, (Ukraine) "dComFra: Digital competence framework for Ukrainian teachers and other citizens"
13:10	<i>Carsten Wolff</i> , Doctor of Technical Sciences, Professor, Dortmund University of Applied Sciences and Arts, (Germany) "Developing the Digital University for Central Asia - Astana IT University"
13:30	Lunch Room C1.3
14:30	Work in sections
19:00	Gala dinner

APRIL 29 (Friday)**Venue:** AITU Assembly Hall**Meeting ID:** [991 5752 8669](#)**Passcode:** 589971

	Plenary session
10:00	<i>Aiganym Soltiyeva, Madina Alimanova, Ph.D., Assoc. professor, Suleyman Demirel University, (Kazakhstan), (ID-125)</i> "Developing an Immersive Virtual Reality Training System to Enrich Social Interaction And Communication Skills For Children With Autism Spectrum Disorder"
10:15	<i>Bauyrzhan Omarov, Ph.D. candidate, Al- Farabi Kazakh National University, (Kazakhstan) (ID-83)</i> "Network Intrusion Detection using Machine Learning Techniques"
10:30	<i>Mendymbaev Birlik, Ph.D. candidate, L. Gumilyov Eurasian National University (Kazakhstan)</i> "Being Smart is the Only Way for Sustainability"
10:45	<i>Oleksandr Mitsa, Doctor of Technical Sciences, Professor, Uzhhorod National University (Ukraine)</i> "Using machine learning to analyze textual information"
11:00	<i>Myroslava Bublyk, Doctor of Economic Sciences, Professor, Lviv Polytechnic National Universitydisabled, (Ukraine)</i> "Conceptual principles of by-product interactions to build an information system for hazardous waste transportation based on ontologies"
11:15	<i>Alexander Kuchansky, Doctor of Technical Sciences, Associate Professor, Taras Shevchenko National University of Kyiv, (Ukraine)</i> "Methodology for the formation of international teams for multidisciplinary research"
11:30	PhD Dinara Kaibassova, Margulan Nurtay, Karagandy Technical University (Қазақстан) (ID-109) The comparative analysis of Machine Learning models for quality assessment of textual academic works
11:45	Coffee break
12:00	Section presentations
13:30	Lunch
14:30	Section presentations

APRIL 30 (Saturday)**Venue:** AITU Assembly Hall**Meeting ID:** [991 5752 8669](#)**Passcode:** 589971

	Plenary reports
9:00	Dialogue platform for discussion of reports, coffee break Room C1.1
10:00	Plenary session: conference results. Conference closing Assembly Hall. conference participants
13:00	Coffee break

28 APRIL (Thursday)

08:00	Participants registration
09:30	Welcome coffee, exhibition, tour at university
10:00	Greetings <ol style="list-style-type: none"> 1. <i>Askhat Aimagambetov</i>, Minister of Education and Science of the Republic of Kazakhstan – «Digitalization of Education» (by approval) 2. <i>Bagdat Mussin</i>, Minister of Digital Development, Innovations and Aerospace Industry of the Republic of Kazakhstan – «Digitalization of Education» (by approval) 3. <i>Altay Kulginov</i>, Akim of Nur-Sultan (by approval) 4. <i>Svetlana Murzabekova</i>, Candidate of Economic Sciences, IPMA(A), MBA, First Deputy Director of “Nursultan Nazarbayev Educational Foundation” Public fund 5. <i>Arman Abdrasilov</i>, Zerde National Infocommunication Holding JSC 6. <i>Botagoz Kassabek</i>, Head of the Department of Digitalization and Public Services of the Akimat of Nur-Sultan City
10:20	Plenary presentations (Venue: Assembly Hall)
13:30	Lunch
14:30	Section presentations
14:30	ROOM 1
ID 9	<ol style="list-style-type: none"> 1) Birlik Mendybayev, Kazakhstan, L.N. Gumilyov Eurasian National University 2) Aibek Zhupankhan, L.N. Gumilyov Eurasian National University 3) Tamerlan Mendybayev, Hungary, University of Szeged Distortions Elimination in the System of Urban Planning Using the Geospatial Data: the Case of the North Kazakhstan Region
ID 11	<ol style="list-style-type: none"> 1) Bakhyt Bakiyev, United Kingdom, University of Birmingham 2) Mohammed Bahja, United Kingdom, University of Birmingham Method for determining the similarity of text documents for the Kazakh language, taking into account synonyms: Extension to TF-IDF
ID 14	<ol style="list-style-type: none"> 1) Kanat Mahanov, Kazakhstan, Karaganda Buketov University 2) Nurkhan Kurmanaliyev, Kazakhstan, Karaganda Buketov University 3) Sultan Musepov, Kazakhstan, Karaganda Buketov University 4) Karina Kenzhalieva, Kazakhstan, Karaganda Buketov University Development of the wiring diagram of the device based on the LoRa module RAK3172
ID 16	<ol style="list-style-type: none"> 1) Birlik Mendybayev, Kazakhstan, L.N. Gumilyov Eurasian National University Composite Citizen: an Assessment Framework for Smart City Citizen Participation Management
ID 22	<ol style="list-style-type: none"> 1) Sergey Bushuyev, Ukraine, Kyiv National University of Construction and Architecture 2) Svetlana Murzabekova, Kazakhstan, Nazarbayev Educational Foundation 3) Maira Khusainova, Kazakhstan, Nazarbayev Educational Foundation 4) Natalia Bushuyeva, Ukraine, Kyiv National University of Construction and Architecture Modelling of breakthrough competencies for managing an innovation project
ID 23	<ol style="list-style-type: none"> 1) Dinara Zhaisanova, Kazakhstan, Al-Farabi Kazakh National University Students’ Motivational Profiles in the high education of Kazakhstan in the context of self-determination theory: Big Data application
ID 26	<ol style="list-style-type: none"> 1) Ihor Tereikovskiy, Ukraine, National Technical University of Ukraine

	2) Liudmyla Tereikovska, Ukraine, Kyiv National University of Construction and Architecture 3) Olena Kryvoruchko, Ukraine, Kyiv National University of Trade and Economics 4) Oleh Tereikovskiy, Ukraine, National Technical University of Ukraine 5) Dmytro Tyshchenko, Ukraine, Kyiv National University of Trade and Economics 6) Tamara Franchuk, Ukraine, Kyiv National University of Trade and Economics Speaker's emotions recognition module based on the GoogleLeNet neural network
ID 28	1) Zaira Satpayeva, Kazakhstan, Institute of Economics of the Ministry Education and Science of RK 2) Galiya Seitkan, Kazakhstan, Al-Farabi Kazakh National University 3) Aigerim Yessentay, Kazakhstan, Al-Farabi Kazakh National University 4) Aigul Yessentay, Kazakhstan, Kazakh National Medical University Models of Social Research in the Development of Digital Infrastructure
ID 29	1) Kateryna Kyivska, Ukraine, Kyiv National University of Construction and Architecture 2) Svitlana Tsiutsiura, Ukraine, Kyiv National University of Construction and Architecture 3) Denys Chernyshev, Ukraine, Kyiv National University of Construction and Architecture 4) Terentyev Olexander, Ukraine, Kyiv National University of Construction and Architecture 5) Igor Rusan, Ukraine, Kyiv National University of Construction and Architecture 6) Ruvyn Oleksandr, Ukraine, Kyiv Scientific Research Institute of Forensic Expertise Information technologies for modeling the life cycle of construction objects
16:00	Coffee break
16:30	ROOM 1
ID 36	1) Yerulan Abaiuly, Kazakhstan, Al-Farabi Kazakh National University 2) Ihor Tereikovskiy, Ukraine, National Technical University of Ukraine 3) Igor Sikorsky, Ukraine, Kyiv Polytechnic Institute 4) Shynar Mussiraliyeva, Kazakhstan, Al-Farabi Kazakh National University 5) Liudmyla Tereikovska, Ukraine, Kyiv National University of Construction and Architecture 6) Denys Chernyshev, Ukraine, Kyiv National University of Construction and Architecture 7) Adlet Nyussupov, Kazakhstan, Al-Farabi Kazakh National University The procedure of adapting the design parameters of the convolutional neural network during the speaker's emotions recognition.
ID 37	1) Sergey Bushuyev, Ukraine, Kyiv National University of Construction and Architecture 2) Svitlana Onyshchenko, Ukraine, Odesa National Maritime University 3) Natalia Bushuyeva, Ukraine, Kyiv National University of Construction and Architecture 4) Alla Bondar, Ukraine, Odesa National Maritime University 5) Alesia Obronovs, Ukraine, Odesa National Maritime University Assessment and Monitoring Project Management Quality based on the Entropy Approach
ID 40	1) Malika Knissarina, Kazakhstan, West Kazakhstan Marat Ospanov Medical University

	2) Aigul Syzdykbayeva, Kazakhstan, Abay Kazakh National Pedagogical University 3) Alua Miraleeva, Kazakhstan, West Kazakhstan Marat Ospanov Medical University 4) Gulmira Zhumaliyeva, Kazakhstan, West Kazakhstan Marat Ospanov Medical University The role of socially responsible behavior of students in the modern digital space
ID 43	1) Assel Mukasheva, Kazakhstan, Almaty University of Power Engineering and Telecommunications 2) Didar Yedilkhan, Kazakhstan, Astana IT University 3) Bakytgul Mustafina, Kazakhstan, Astana IT University Assessment of diabetes mellitus epidemiological situation in Kazakhstan: a statistical approach
ID 47	1) Olzhas Zhetpisbayev, Kazakhstan, Almaty University of Power Engineering and Telecommunications 2) Dinara Kassymova, Kazakhstan, Academy of Logistics and Transport 3) Irbulat T Utepbergenov, Kazakhstan, Almaty University of Power Engineering and Telecommunications Approach to Detection and Elimination of Contradictions in Big Data Bases for Analytics Concerns of Urban Passenger Transport
ID 49	1) Marianna Sharkadi, Ukraine, Uzhhorod National University 2) Mykola Malyar, Ukraine, Uzhhorod National University Synthesis Model of the Financial and Economic Security Level Assessment in the Company Management System
ID 55	1) Yuliia Kostiuk, Ukraine, Kyiv National University of Trade and Economics 2) Olena Kryvoruchko, Ukraine, Kyiv National University of Trade and Economics 3) Mykola Tsiutsiura, Ukraine, Kyiv National University of Construction and Architecture 4) Andrii Yerukaiev Ukraine, Kyiv National University of Construction and Architecture 5) Rusan Nadiia, Ukraine, Kyiv National University of Construction and Architecture Research of Methods of Control and Management of the Quality of Butter on the Basis of the Neural Network
ID 57	1) Zhanerke Temirbekova, Kazakhstan, Al-Farabi Kazakh National University 2) Anna Pyrkova, Kazakhstan, Al-Farabi Kazakh National University 3) Zukhra Abdiakhmetova, Kazakhstan, Al-Farabi Kazakh National University 4) Aidana Berdaly, Kazakhstan, Al-Farabi Kazakh National University Library of Fully Homomorphic Encryption on a Microcontroller
ID 58	1) Seyit Kerimkhulle, Kazakhstan, L.N. Gumilyov Eurasian National University 2) Zhanar Alimova, Kazakhstan, Toraighyrov University 3) Assylzat Slanbekova, Kazakhstan, Karaganda Buketov University 4) Nauryz A Baizakov, Kazakhstan, Economic Research Institute 5) Ayagoz Mukhanova, Kazakhstan, L.N. Gumilyov Eurasian National University 6) Mansiya Aryn Timer, Kazakhstan, L.N. Gumilyov Eurasian National University The Use Leontief Input-Output Model to Estimate the Resource and Value Added
ID 59	1) Mohamed Hassan Eisa, India, Lovely Professional University 2) Manwinder Singh, India, Lovely Professional University 3) Khalid Hamed Bilal, Sudan, University of Science and Technology Average Rate Performance for Pairing Downlink NOMA Networks Schemes
ID 60	1) Zaira Satpayeva, Kazakhstan, Institute of Economics of SC MES RK Absorptive Capacity of Kazakhstani Enterprises

ID 71	1) Ievgenii Gorbatiyuk, Ukraine, Kyiv National University of Construction and Architecture 2) Oleksandr Terentyev, Ukraine, Kyiv National University of Construction and Architecture 3) Ihor Rusan, Ukraine, Kyiv National University of Construction and Architecture 4) Anatoliy Sviderskyi, Ukraine, Kyiv National University of Construction and Architecture Intelligent information technology for testing neural network during diagnostics of technical condition of buildings
19:00	Gala Dinner
14:30	ROOM 2
ID 72	1) Hiba Mohammed SeedAhmed, Saudi Arabia, Qassim University 2) Khalid Hamed Bilal, Sudan, University of Science and Technology 3) Afaf M Mustafa, Sudan, University of Bahri Khartoum North 4) Fatima Elhassan, Saudi Arabia, King Khalid University 5) Tafaul Osman, Sudan, Omdurman Islamic University 6) Ibrahim Khidir Eltahir, Sudan, University of Gezira VOIP QoS over UMTS network using IEEE 802.11e EDCA algorithm
ID 82	1) Khrystyna Chupryna, Ukraine, Kyiv National University of Construction and Architecture 2) Andrii Biloshchytskyi, Kazakhstan, Astana IT University 3) Dmytro Prykhodko, Ukraine, Kyiv National University of Construction and Architecture 4) Horbach Maksym, Ukraine, Kyiv National University of Construction and Architecture 5) Oleksandr Mironov, Ukraine, Kyiv National University of Construction and Architecture 6) Mykhailo Malykhin, Ukraine, Kyiv National University of Construction and Architecture Substantiation and development of comprehensive measures to improve the activities of construction companies
ID 83	1) Bauyrzhan Omarov, Kazakhstan, Al-Farabi Kazakh National University 2) Omirlan Auelbekov, Kazakhstan, Institute Information and Computational Technologies CS MES RK 3) Tursynay Koishiyeva, Kazakhstan, Khoja Akhmet Yassawi International Kazakh-Turkish University 4) Ruslan Sadybekov, Kazakhstan, Khoja Akhmet Yassawi International Kazakh-Turkish University 5) Yerkebulan Uxikbayev, Kazakhstan, Khoja Akhmet Yassawi International Kazakh-Turkish University 6) Aizhan Bazarbayeva, Kazakhstan, Khoja Akhmet Yassawi International Kazakh-Turkish University IoT Network Intrusion Detection using Machine Learning Techniques
ID 84	1) Galyna Ryzhakova, Ukraine, Kyiv National University of Construction and Architecture 2) Vadym Pokolenko, Ukraine, Kyiv National University of Construction and Architecture 3) Serik Omirbayev, Kazakhstan, Astana IT University 4) Innola Novykova, Ukraine, Kyiv National University of Construction and Architecture

	<p>5) Olha Bieliukova, Ukraine, Kyiv National University of Construction and Architecture</p> <p>6) Mykhailo Kapustian, Ukraine, Kyiv National University of Construction and Architecture</p> <p>Modern structuring of project financing solutions in construction</p>
ID 86	<p>1) Aigerim Aitim, Kazakhstan, International Information Technology University</p> <p>2) Gulbakyt Sembina, Kazakhstan, International Information Technology University</p> <p>3) Medet Shaizat, Kazakhstan, International Information Technology University</p> <p>Machine Learning Algorithms in Medicine for Predicting and Preventive Diagnosis of Diseases</p>
ID 87	<p>1) Gulbakyt Sembina, Kazakhstan, International Information Technology University</p> <p>Building a Scoring Model Using the Adaboost Ensemble Model</p>
ID 90	<p>1) Zhakhongir Khussanov, Kazakhstan, Auezov South Kazakhstan University</p> <p>2) Oleksandr Prokhorov, Ukraine, National Aerospace University "Kharkov aviation institute"</p> <p>3) Valeriy Prokhorov, Ukraine, National University of Radio Electronics</p> <p>4) Andriy Tevyashev, Ukraine, National University of Radio Electronics</p> <p>5) Dilfuza Turdybekova, Kazakhstan, Auezov South Kazakhstan University</p> <p>6) Oleksii Shatalov, Ukraine, National University of Radio Electronics</p> <p>Adaptive Intelligent System for Monitoring and Control the Parameters of Pipelines Electrochemical Corrosion Protection</p>
ID 92	<p>1) Oleksandr Prokhorov, Ukraine, National Aerospace University "Kharkov aviation institute"</p> <p>2) Sergey Kiyko, Ukraine, PJSC "Electrometallurgical plant "Dniprospetsstal"</p> <p>3) Evgeniy Druzhinin, Ukraine, National Aerospace University "Kharkov aviation institute"</p> <p>4) Viktor Kosenko, Ukraine, National University «Yuri Kondratyuk Poltava Polytechnic»</p> <p>5) Ihor Bileckiy, Ukraine, Beketov National University of Urban Economy in Kharkiv</p> <p>6) Mykhailo Kovalevskyi, Ukraine, National Aerospace University "Kharkov aviation institute"</p> <p>Predictive Analytics for Increasing the Energy Efficiency of Industrial Enterprises</p>
16:00	Coffee break
16:30	ROOM 2
ID 93	<p>1) Serhii Dolhopolov, Ukraine, Kyiv National University of Construction and Architecture</p> <p>2) Tetyana Honcharenko, Ukraine, Kyiv National University of Construction and Architecture</p> <p>3) Svitlana Anastasiia Dolhopolova, Ukraine, Kyiv National University of Construction and Architecture</p> <p>4) Olena Riabchun, Ukraine, Kyiv National University of Construction and Architecture</p> <p>5) Maksym Delembovskyi, Ukraine, Kyiv National University of Construction and Architecture</p> <p>Use of Artificial Intelligence Systems for Determining the Career Guidance of Future University Student</p>

ID 94	1) Serhii Chernov, Ukraine, Admiral Makarov National University of Shipbuilding 2) Serhii Titov, Ukraine, Admiral Makarov National University of Shipbuilding 3) Liudmyla Chernova, Ukraine, Admiral Makarov National University of Shipbuilding 4) Liubava Chernova, Ukraine, Admiral Makarov National University of Shipbuilding 5) Antonina Trushliakova, Ukraine, Admiral Makarov National University of Shipbuilding Optimization Model in Transportation Logistics Management Problems
ID 96	1) Tetyana Honcharenko, Ukraine, Kyiv National University of Construction and Architecture 2) Hanna Shpakova, Ukraine, Kyiv National University of Construction and Architecture 3) Kostyantyn Predun, Ukraine, Kyiv National University of Construction and Architecture 4) Miroslava Zinchenco, Ukraine, Kyiv National University of Construction and Architecture 5) Mariia Liashchenko, Ukraine, Kyiv National University of Construction and Architecture 6) Volodymyr Savenko, Ukraine, Kyiv National University of Construction and Architecture Smart Information System for Creating Digital Twins of Construction Project
ID 100	1) Olena Vartsaba, Ukraine, Uzhhorod National University 2) Ihor Mych, Ukraine, Uzhhorod National University 3) Volodymyr Nikolenko, Ukraine, Uzhhorod National University 4) Vadym Dynys, Ukraine, Uzhhorod National University 5) Alexander Kuchansky, Ukraine, Taras Shevchenko National University of Kyiv Synthesis of bases of Boolean Functions based on Post classes
ID 101	1) Iurii Chupryna, Ukraine, Kyiv National University of Construction and Architecture 2) Ruslan Tormosov, Ukraine, All-Ukrainian Charitable Organization “Municipal Development Institute” 3) Dilara Abzhanova, Kazakhstan, Astana IT University 4) Dmytro Ryzhakov, Ukraine, Kyiv National University of Construction and Architecture 5) Viktoriya Gonchar, Ukraine, Pryazovskyi State Technical University 6) Natali Plys, Ukraine, Kyiv National University of Construction and Architecture Scientific and Methodological Approaches to Risk Management of Clean Energy Projects Implemented in Ukraine on the Terms of Public-Private Partnership
ID 103	1) Moldamurat Khuralay, Kazakhstan, L.N. Gumilyov Eurasian National University 2) Akhmetov Kayrat, Kazakhstan, L.N. Gumilyov Eurasian National University 3) Otegen Alikhan, Kazakhstan, L.N. Gumilyov Eurasian National University 4) Brimzhanova Saule, Kazakhstan, NPLC «A. Baitursynov KRU», Kostanay Academy of the MIA of the RK 5) Otyzbayeva Karlygash, Kazakhstan, L.N. Gumilyov Eurasian National University 6) Zhiyenbek Arailym, Kazakhstan, L.N. Gumilyov Eurasian National University Computer simulation of intelligent control systems for high-precision cruise missiles

ID 104	1) Nadiia Reznik, Ukraine, National university of life and environmental science of Ukraine 2) Alona Zahorodni, Ukraine, National university of life and environmental science of Ukraine 3) Mykola Mykhalychenko, Ukraine, National university of life and environmental science of Ukraine 4) Tetyana Demchenko, Ukraine, National university of life and environmental science of Ukraine 5) Pavlo Tychyna, Ukraine, Uman State Pedagogical University Features of long-term economic growth as a conditions of economic security of Ukraine
ID 108	1) Baktkerey Sinchev, Kazakhstan, International University of Information Technology 2) Aksulu Mukhanova, Kazakhstan, Almaty Technological University 3) Anel Auezova, Kazakhstan, International University of Information Technology 4) Tolkynai Sadykova, Kazakhstan, International University of Information Technology Polynomial Solvability of the Subset Sum Problem
ID 109	1) Margulan Nurtay, Kazakhstan, Karagandy Technical University 2) Dinara Kaibassova, Kazakhstan, Karagandy Technical University The comparative analysis of Machine Learning models for quality assessment of textual academic works
ID 111	1) Magzhan Kairanbay, Kazakhstan, Suleiman Demirel University 2) Zhibek Daribay, Kazakhstan, South Kazakhstan Pedagogical University Detection Childhood of Apraxia of Speech from the Video Data using PoseNet
ID 114	1) Julie Ann B. Susa, Philippines, Southern Luzon State University 2) Renato R. Maaliw III, Philippines, Southern Luzon State University 3) Carla May C. Ceribo, Philippines, Southern Luzon State University 4) Jonel Macalisang, Philippines, Technological University of the Philippines 5) Bernard C. Fabro, Philippines, Eulogio “Amang” Rodriguez” Institute of Science and Technology An Efficient Safety and Authorized Helmet Detection using Deep Learning Approach
ID 116	1) Julie Ann B. Susa, Philippines, Southern Luzon State University 2) Wendy C. Nombrefia, Philippines, Southern Luzon State University 3) Alfredo S. Abustan Jr., Philippines, Southern Luzon State University 4) Renato R. Maaliw III, Philippines, Southern Luzon State University 5) Jonel Macalisang, Philippines, Technological University of the Philippines Deep Learning Technique Detection for Cotton and Leaf Classification
19:00	Gala Dinner
14:30	ROOM 3
ID 120	1) Aidana Berdaly, Kazakhstan, Al-Farabi Kazakh National University 2) Zukhra Abdiakhmetova, Kazakhstan, Al-Farabi Kazakh National University 3) Zhanerke Temirbekova, Kazakhstan, Al-Farabi Kazakh National University Comparative Machine-Learning Approach: Study for Heart Diseases
ID 128	1) Zarina Syrymbet, Kazakhstan, International Information Technology University 2) Sabina Rakhmetulayeva, Kazakhstan, International Information Technology University Convolutional Neural Network Analysis of Fundus for Glaucoma Diagnosis

ID 129	1) Moldamurat Khuralay, Kazakhstan, L.N. Gumilyov Eurasian National University 2) Brimzhanova Saule, Kazakhstan, NPLC «A. Baitursynov KRU», Kostanay Academy of the MIA of the RK named after Sh. Kabyibaev 3) Bibianar Baizhumanova Kazakhstan, L.N. Gumilyov Eurasian National University 4) Bizhanova Olga, Kazakhstan, NPLC «A. Baitursynov KRU» 5) Akhmetov Kayrat, Kazakhstan, L.N. Gumilyov Eurasian National University 6) Moldamurat Aibek, Kazakhstan, L.N. Gumilyov Eurasian National University Computer simulation of the path and control of an intelligent mobile robot in Python
ID 131	1) Zhexen Seitbattalov, Kazakhstan, L.N. Gumilyov Eurasian National University 2) Hüseyin Canbolat, Turkey, Ankara Yıldırım Beyazıt University 3) Zhanar Moldabayeva, Kazakhstan, L.N. Gumilyov Eurasian National University 4) Abzal Kyzyrkanov, Kazakhstan, L.N. Gumilyov Eurasian National University An Intelligent Automatic Number Plate Recognition System Based on Computer Vision and Edge Computing
ID 133	1) Liliya Snitsar, Kazakhstan, L.N. Gumilyov Eurasian National University Algorithms and technology for using a hardware complex for diagnosing defects in construction piles
ID 135	1) Pakizar Shamoi, Kazakhstan, Kazakh-British Technical University 2) Daniyar Sansyzbayev, Kazakhstan, Kazakh-British Technical University 3) Nurmukhamed Abilev, Kazakhstan, Kazakh-British Technical University Comparative Overview of Color Models for Content-Based Image Retrieval
ID 136	1) Ka-Hou Chan, China, Macao Polytechnic Institute 2) Sio-Kei Im, China, Macao Polytechnic Institute Applying and Optimizing NLP Model with CARU
ID 137	1) Altynay Shubekova, Kazakhstan, Astana IT University Analysis of attendance control systems for employees of organizations based on face recognition algorithms
ID 138	1) Anastassiya Reshodko, Kazakhstan, Nazarbayev University 2) Indira Kabimoldina, Kazakhstan, Nazarbayev University 3) Makpal Khozhamuratova, Kazakhstan, Nazarbayev University 4) Kymbat Khamit, Kazakhstan, Nazarbayev University 5) Margulan Yermek, Kazakhstan, Nazarbayev University 6) Essam Shehab, Kazakhstan, Nazarbayev University A System Engineering Investigation for Product-Service System Realization of Heat Pumps in Kazakhstan
ID 139	1) Assiya Sarinova, Kazakhstan, S.Seifullin Kazakh Agrotechnical University 2) Rostyslav Lisnevskiy, Ukraine, Taras Shevchenko National University 3) Andrii Biloshchytskyi, Kazakhstan, Astana IT University The lossless compression algorithm of hyperspectral aerospace images with correlation and bands grouping
16:00	Coffee break
16:30	ROOM 3
ID 140	1) Assiya Sarinova, Kazakhstan, S.Seifullin Kazakh Agrotechnical University 2) Alexandr Neftissov, Kazakhstan, Astana IT University 3) Sergiy Bronin, Ukraine, Taras Shevchenko National University Regression approach to lossless compression algorithm for hyperspectral images

ID 141	1) Tleusher Izbassarov, Kazakhstan, Kazakh-British Technical University 2) Cemil Turan, Kazakhstan, Suleyman Demirel University Understanding Authorship Attributions of Kazakh Texts via Distance Measures
ID 144	1) Assel Yussupova, Kazakhstan, Toraighyrov University 2) Alexandr Neftisov, Kazakhstan, Astana IT University 3) Alexandra Potapenko, Kazakhstan, Toraighyrov University 4) Dariya Urazalimova, Kazakhstan, Toraighyrov University Method for determination rotor eccentricity of an electric machine
ID 145	1) Md. Tanvir Tanshen, Bangladesh, Ahsanullah University of Science and Technology 2) Towkir Ahmed, Bangladesh, Ahsanullah University of Science and Technology 3) Rakesh Paul, Bangladesh, Ahsanullah University of Science and Technology 4) M Arfayet Alam, Bangladesh, Ahsanullah University of Science and Technology 5) Raqeebir Rab, Bangladesh, Ahsanullah University of Science and Technology A Comprehensive Approach to Enhance Dark Image Implementing Image Processing Techniques
ID 146	1) Regina Andekina, Kazakhstan, Turan Astana University 2) Aizhan Anartayeva, Kazakhstan, Satbayev University Problems and Perspectives of ICT In Higher Education Institutions of Kazakhstan
ID 149	1) Yerkin Abdildin, Kazakhstan, Nazarbayev University 2) Altynay Takisheva, Kazakhstan, Nazarbayev University 3) Dmitriy Viderman, Kazakhstan, Nazarbayev University Erector Spinae Plane Block in Hepatobiliary Surgery: a Meta-analysis
ID 150	1) Alina Beibitkyzy, Kazakhstan, Astana IT University 2) Aruzhan Makhazhanova, Kazakhstan, Astana IT University Application of Deep Convolutional Neural Network in Image Recognition
ID 151	1) Osama Ghullam Ellahi, Pakistan, COMSATS University Islamabad 2) Ahmed Raza, Pakistan, National University of Sciences and Technology 3) Muhammad Umer, Pakistan, COMSATS University Islamabad 4) Nouman Ali, Pakistan, COMSATS University Islamabad Offensive Security: The practice of evading phishing web detection mechanism using target filtering techniques and honeypots
ID 152	1) Arief Taufik Budiman, Indonesia, University of Indonesia 2) Yova Ruldeviyani, Indonesia, University of Indonesia 3) Ahmad Nizar Hidayanto, Indonesia, University of Indonesia Predictive Analytics Comparison of Indonesia Government's Budget with or without Covid-19 Pandemic
ID 153	1) Bauyrzhan Omarov, Kazakhstan, Al-Farabi Kazakh National University 2) Marzhan Asqar, Kazakhstan, Al-Farabi Kazakh National University 3) Ruslan Sadybekov, Kazakhstan, Khoja Akhmet Yassawi International Kazakh-Turkish University 4) Tursynay Koishiyeva, Kazakhstan, Khoja Akhmet Yassawi International Kazakh-Turkish University 5) Aizhan Bazarbayeva, Kazakhstan, Khoja Akhmet Yassawi International Kazakh-Turkish University 6) Yerkebulan Uxikbayev, Kazakhstan, Khoja Akhmet Yassawi International Kazakh-Turkish University Network Intrusion Detection: A Brief Review
ID 156	1) Gulnur Tyulepberdinova, Kazakhstan, Al-Farabi Kazakh National University 2) Olzhas Suleimen, Kazakhstan, Al-Farabi Kazakh National University

	Development of Intellectual Information and Analytical System using Cloud Technologies
ID 157	1) Didar Yedilkhan, Kazakhstan, Astana IT University 2) Sanzhar KUSDavletov, Kazakhstan, Astana IT University 3) Dariya Bissengaliyeva, Kazakhstan, Astana IT University Intelligent Control Scheme Formulation for the Biotechnological Filter
19:00	Gala Dinner

29 APRIL (Friday)

10:00	Plenary presentations (Venue: Assembly Hall)
11:40	Coffee break
12:00	Section presentations
12:00	ROOM 1
ID 158	1) Gulnara Tleuberdiyeva, Kazakhstan, Narxoz University 2) Karina Raiysbayeva, Kazakhstan, Narxoz University 3) Ainura Kaldarova, Kazakhstan, Narxoz University Development of Intelligent Market forecasting System for Personalized Financial Investments
ID 166	1) Aida Ualibekova, Kazakhstan, Kazakh-British Technical University 2) Pakizar Shamoï, Kazakhstan, Kazakh-British Technical University Music Emotion Recognition Using K-Nearest Neighbors Algorithm
ID 167	1) Madina Mansurova, Kazakhstan, Al-Farabi Kazakh 2) Assel Ospan, Kazakhstan, Al-Farabi Kazakh 3) Yerkin Kakimzhanov, Kazakhstan, Al-Farabi Kazakh 4) Boris Resnik, Germany, Berlin University of Applied Sciences and Technology 5) Daniyar Tyulyubayev, Kazakhstan, Al-Farabi Kazakh Development of ANN Application for Monitoring and Analyzing the Dynamics of the Tuyuk Su Mountain Glacier
ID 168	1) Andrii Biloshchytskyi, Kazakhstan, Astana IT University 2) Alexander Kuchansky, Ukraine, Taras Shevchenko National University of Kyiv 3) Yurii Andrashko, Ukraine, Uzhhorod National University 4) Gladka Myroslava, Ukraine, Taras Shevchenko National University of Kyiv Impact of gender on publication productivity and scientific collaboration
ID 172	1) Natalya Demidchik, Kazakhstan, L.N. Gumilyov Eurasian National University 2) Didar Tulepbergenov, Kazakhstan, L.N. Gumilyov Eurasian National University 3) Aliya Kintonova, Kazakhstan, L.N. Gumilyov Eurasian National University 4) Natalya Glazyrina, Kazakhstan, L.N. Gumilyov Eurasian National University 5) Furayeva I., Kazakhstan, L.N. Gumilyov Eurasian National University 6) Senkovskaya A., Kazakhstan, L.N. Gumilyov Eurasian National University Using Yolo for Mask Recognition
ID 173	1) Mykyta Poliakov, Ukraine, Kyiv National University of Construction and Architecture 2) Daoud Mezzane, Morocco, Cadi Ayyad University 3) Svitlana Terenchuk, Ukraine, Kyiv National University of Construction and Architecture

	4) Yuliia Riabchun, Ukraine, Kyiv National University of Construction and Architecture 5) Patrik Rusnak, Slovakia, University of Zilina 6) Svitlana Biloshchytska, Ukraine, Kyiv National University of Construction and Architecture Gamefication of Youth's Career Guidance Self-Identification
ID 176	1) Talshyn Sarsembayeva, Kazakhstan, Al-Farabi Kazakh National University 2) Nurassyl Zholdas, Kazakhstan, Al-Farabi Kazakh National University 3) Madina Mansurova, Kazakhstan, Al-Farabi Kazakh National University 4) Magzhan Sarsembayev, Kazakhstan, Al-Farabi Kazakh National University 5) Arkhat Urykkaliyev, Kazakhstan, Al-Farabi Kazakh National University Study of non-invasive methods of measuring glucose for patients with diabetes mellitus
ID 180	1) Gulnara Bektemyssova, Kazakstan, International Information Technology University 2) Yerassyl Akhmer, Kazakstan, International Information Technology University Using Image Processing and Optical Character Recognition to Recognise ID cards in the Online Process of Onboarding
ID 183	1) Valerii Kozlovskiy, Ukraine, National Aviation University 2) Yuriy Balanyuk, Ukraine, National Aviation University 3) Hanna Martyniuk, Ukraine, National Aviation University 4) Oleg Nazarevych, Ukraine, Ternopil Ivan Puluj National Technical University 5) Leonid Scherbak, Ukraine, Institute of General Energy of the National Academy of Sciences of Ukraine 6) Grigorii Shymchuk, Ukraine, Ternopil Ivan Puluj National Technical University Information Technology for Estimating City Gas Consumption During the Year
ID 184	1) Oksana Mulesa, Ukraine, Uzhhorod National University 2) Oleksandr Mitsa, Ukraine, Uzhhorod National University 3) Tamara Radivilova, Ukraine, Kharkiv National University of Radioelectronics 4) Fedir Geche, Ukraine, Uzhhorod National University 5) Viktor Dulo, Ukraine, Uzhhorod National University Development of the Group Problem Solving Method in Designing Traffic Flows
13:30	Lunch
14:30	ROOM 1
ID 185	1) Ahmed Raza, Pakistan, National University of Sciences and Technology 2) Osama Ghullam Ellahi, Pakistan, COMSATS University Islamabad 3) Muhammad Hassan, Pakistan, National University of Sciences and Technology 4) Muhammad Umer, Pakistan, COMSATS University Islamabad Analyzing 2FA Phishing Attacks and Their Prevention Techniques
ID 187	1) Viktor V Morozov, Ukraine, Taras Shevchenko National University of Kyiv Use of Customer Journey Maps for Data Mining in the Start-up Projects
ID 190	1) Madina Mansurova, Kazakhstan, Al Farabi Kazakh National University 2) Baurzhan Belgibayev, Kazakhstan, Al Farabi Kazakh National University 3) Gassyr Nazar, Kazakhstan, Al Farabi Kazakh National University 4) Ainur Zhumasheva, Kazakhstan, Al Farabi Kazakh National University Simulation model for online prediction of increased passenger flow at Almaty Metro stations
ID 196	1) Nurdaulet Shynarbek, Kazakhstan, Suleyman Demirel University 2) Aisulu Saduakassova, Kazakhstan, Suleyman Demirel University

	3) Nurbek Sagyndyk, Kazakhstan, Suleyman Demirel University 4) Yershat Sapazhanov, Kazakhstan, Suleyman Demirel University 5) Alibek Orynassar, Kazakhstan, Suleyman Demirel University Forecasting Dropout in University Based on Students' Background Profile Data Through Automated Machine Learning Approach
ID 200	1) Olzhas Talipov, Kazakhstan, Toraigyrov University 2) Alexandr Kislov, Kazakhstan, Toraigyrov University 3) Alexandr Neftisov, Kazakhstan, Astana IT University 4) Alexey Zvontsov, Kazakhstan, Toraigyrov University 5) Lalita Kirichenko, Kazakhstan, Toraigyrov University Metrological support of passive components of fiber-optical communication lines for determining the parameters of the effective length of a multi-mode tract taking into account dispersional characteristics
ID 204	1) Khyati Marwah, United Kingdom, UREKA 2) Sarfraz Hasan, United Kingdom, UREKA Visualizing and Exploring Navigation Data using Machine Learning Techniques
15:30	Coffee break
16:00	ROOM 1
ID 206	1) Mahfuzulhoq Chowdhury, Bangladesh, Chittagong University of Engineering & Technology 2) Alve Ahmad, Bangladesh, Chittagong University of Engineering & Technology 3) Arup Saha, Bangladesh, Chittagong University of Engineering & Technology 4) Bibhas Roy Chowdhury, Bangladesh, Chittagong University of Engineering & Technology 5) Forkan Uddin Ahmed, Bangladesh, Chittagong University of Engineering & Technology Utility Point: A User Service Assistance Based Mobile Application for the Citizens of Bangladeshi City Corporation
ID 207	1) Aldiyar Salkenov, Kazakhstan, Astana IT University 2) Assel Salkenova, Kazakhstan, Astana IT University 3) Dastan Demeugazyev, Kazakhstan, Turan University 4) Elvira Aitmukhanbetova, Kazakhstan, Astana IT University Impact of Digital Transformation on the Employees' Remote Working Performance: A Higher Institution Case Study
ID 208	1) Roman Mazurenko, Ukraine, Kyiv National University of Construction and Architecture 2) Bohdan Yeremenko, Ukraine, Taras Shevchenko National University of Kyiv 3) Viktor Morozov, Ukraine, Taras Shevchenko National University of Kyiv Development of Intelligent Traffic Control System Project
ID 210	1) Marat Mustafin, Kazakhstan, Astana IT University Image reconstruction in 3D with Multi-view Stereo Algorithm and Python implementation
ID 212	1) Lazzat Zholshiyeva, Kazakhstan, Astana International University 2) Tamara Zhukabayeva, Kazakhstan, Astana International University 3) Sherzod Turaev, United Arab Emirates University 4) Meruyert Berdiyeva, Kazakhstan, South Kazakhstan Medical Academy 5) Sengirbaeva Raykhan, Kazakhstan, Special boarding school №1 for children with hearing impairment A Real-Time Approach to Recognition of Kazakh Sign Language

ID 213	1) Roman Ponomarenko, Ukraine, Taras Shevchenko National University of Kyiv 2) Yana Bondarenko, Ukraine, Taras Shevchenko National University of Kyiv Knowledge testing system base on machine learning and fuzzy systems
ID 262	1) Batyrzhan Akhmetzhanov, Kazakhstan, Astana IT University 2) Omar Aslan, Kazakhstan, Astana IT University 3) Zhanserik Nurlan, Kazakhstan, Astana IT University 4) Nurkhat Zhakiyev, Kazakhstan, Astana IT University; Turkey, Gazi University Integration of a Video Surveillance System into a Smart Home Using the Home Assistant Platform
12:00	ROOM 2
ID 219	1) Md Rashidul Islam, Bangladesh, International Islamic University Chittagong 2) Md Burhan Uddin, Bangladesh, International Islamic University Chittagong 3) Md Shafiullah, Saudi Arabia, King Fahd University of Petroleum and Minerals 4) Abdul Majid Hasan, Bangladesh, International Islamic University Chittagong Power System Stability Improvement by Designing the Optimal PSS Using Multi-Verse Optimization Technique
ID 220	1) ArunaKranthi Godiishala, Brunei, Universiti Brunei Darussalam 2) Hayati Yassin, Brunei, Universiti Brunei Darussalam 3) Veena R, Brunei, Universiti Brunei Darussalam 4) Daphne Teck Ching Lai, Brunei, Universiti Brunei Darussalam Classification and Risk Prophecy of Breast Cancer using ImageDataGenerator and Feature Detectors in Deep Learning Techniques in Python
ID 224	1) Volodymyr Kudin, Ukraine, Taras Shevchenko National University of Kyiv 2) Andriy Onyshchenko, Ukraine, Taras Shevchenko National University of Kyiv 3) Edgar Rostomian, Ukraine, Taras Shevchenko National University of Kyiv 4) Oleksandra Hul, Ukraine, the Nat. Academy of the Security Service of Ukraine 5) Petro Soroka, Ukraine, Taras Shevchenko National University of Kyiv Experimental Analysis of the Influence of Technological Changes in the Balance Models "Input-Output" in the Terms of the Paris Agreement Modelling
ID 228	1) Zhumaniyaz Mamatnabiyev, Kazakhstan, Suleyman Demirel University 2) Nurbek Tuleugaliyev, Kazakhstan, Suleyman Demirel University Animal Tracking System based on GPS sensor and LPWAN
ID 229	1) Sadaf Waziry, Turkey, Istanbul Aydin University 2) Ahmad Bilal Wardak, Turkey, Istanbul Aydin University 3) Jawad Rasheed, Turkey, Istanbul Aydin University Character and Digit Recognition Using ANN Back Propagation Algorithm and Image Segmentation
ID 231	1) Timur Ishuov, Kazakhstan, Nazarbayev University 2) Zhenis Otarbay, Kazakhstan, Nazarbayev University 3) Michele Folgheraiter, Kazakhstan, Nazarbayev University A concept of unbiased Deep Deterministic Policy Gradient
ID 234	1) Shakhnaz Amenova, Kazakhstan, Kazakh-British Technical University 2) Cemil Turan, Kazakhstan, Suleyman Demirel University 3) Dinara Zharkynbek, Kazakhstan, Kazakh-British Technical University Android Malware Classification by CNN-LSTM
ID 235	1) Nursagymbek Rashiden, Kazakhstan, Astana IT University Development of an indoor positioning information system based on BLE technology and increasing the efficiency of the triangulation method with machine learning

ID 237	1) Temirlan Kazhymurat, Kazakhstan, Nazarbayev University 2) Essam Shehab, Kazakhstan, Nazarbayev University 3) Md. Hazrat Ali, Kazakhstan, Nazarbayev University Development of IoT -Based Real-time Monitoring System for 3D Printing
ID 238	1) Joanna M. Gąbka, Poland, Wrocław University of Science and Technology 2) Radosław Porczynski, Poland, Inotec GoShaper as an innovative training and evaluation platform with embedded AI solutions
13:30	Lunch
14:30	ROOM 2
ID 239	1) Galina Samigulina, Kazakhstan, Institute of Information and Computing Technologies 2) Zarina Samigulina, Kazakhstan, Kazakh-British Technical University Development of a distance education cognitive technology based on a unified artificial immune system
ID 242	1) Sadiya Thazeen, India, Visvesvaraya Technological University 2) Mallikarjunaswamy S., India, Visvesvaraya Technological University 3) Mohamed Najmus Saqhib, India, Visvesvaraya Technological University Septennial Adaptive Beamforming Algorithm
ID 245	1) Aliya Nugumanova, Kazakhstan, S. Amanzholov East Kazakhstan State University 2) Yermek Alimzhanov, Kazakhstan, Astana IT University 3) Yerzhan Baiburin, Kazakhstan, S. Amanzholov East Kazakhstan State University Sentiment analysis of reviews in Kazakh with transfer learning techniques
ID 248	1) Aibek Kerimbayev, Kazakhstan, S.Seifullin Kazakh Agro Technical University Creation and Testing a Microcontroller Based Security Module
ID 230	1) Kamil Akatov, Kazakhstan, Astana IT University 2) Didar Yedilkhan, Kazakhstan, Astana IT University 3) Alibi Urnaliyev, Kazakhstan, Astana IT University Approaches to the Development of an Effective Regulatory Ecosystem and Policies for Big Data Analytics in the Republic of Kazakhstan
ID 246	1) Aisulu Nurkey, Kazakhstan, Agency for Civil Service Affairs 2) Didar Yedilkhan, Kazakhstan, Astana IT University 3) Aigul Kosherbayeva, Kazakhstan, Academy of the Public Administration under the President of the Kazakhstan Digitalization of Legislative Decision-making Processes in Kazakhstan
15:30	Coffee break
16:00	ROOM 2
ID 249	1) Akbota Seitova, Kazakhstan, Abai Kazakh National Pedagogical University 2) Darazha Issabayeva, Kazakhstan, Abai Kazakh National Pedagogical University 3) Lyazzat Rakhimzhanova, Kazakhstan, Al-Farabi Kazakh National University Evaluation of independent work of students in distance learning based on Eutagogy
ID 250	1) Leila Salykova, Kazakhstan, Astana IT University 2) Nurkhat Ibadildin, Kazakhstan, Astana IT University 3) Danil Lebedev, Kazakhstan, Astana IT University Competence model development at Astana IT University

ID 252	1) Birlik Mendybayev, Kazakhstan, L.N. Gumilyov Eurasian National University 2) Perizat Burbayeva, Kazakhstan, L.N. Gumilyov Eurasian National University Application of Social Network Analysis and Mintzberg Classification to Assess the Imbalances in Organizational Structure: Case of Kazakhstan Ministry of Ecology, Geology and Natural Resources
ID 255	1) Timur Ishuov, Kazakhstan, Nazarbayev University 2) Zhenis Otarbay, Kazakhstan, Nazarbayev University A concept of unbiased stochastically Deterministic Policy Gradient for better generalization in Bipedal Walker
ID 256	1) Iliyas Abduali, Kazakhstan, Astana IT University 2) Aldiyar Ibragimov, Kazakhstan, Astana IT University Development of a model for predicting the optimal value for selected dataset using a web application
12:00	ROOM 3
ID 258	1) Sadiya Thazeen, India, Visvesvaraya Technological University NSEV Method for Better Resolution
ID 265	1) Aidos Satan, Kazakhstan, Astana IT University 2) Ayagoz Khamzina, Kazakhstan, Astana IT University 3) Damir Toktarbayev, Kazakhstan, Astana IT University 4) Nurkhat Zhakiyev, Kazakhstan, Astana IT University 5) Ideyat Bapiyev, Kazakhstan, Zhangir khan West Kazakhstan Agrarian - Technical University Comparative LSTM and SVM Machine Learning Approaches for Energy Consumption Prediction: Case Study in Akmola
ID 267	1) Idrissi Gartoumi Khalil, Morocco, National Higher School for Arts and Crafts 2) Aboussaleh Mohamed, Morocco, National Higher School for Arts and Crafts 3) Zaki Smail, Morocco, National Higher School for Arts and Crafts A framework integrating BIM and LC to improve construction processes
ID 268	1) Natalya Demidchik, Kazakhstan, L.N. Gumilyov Eurasian National University 2) Salken A., Kazakhstan, L.N. Gumilyov Eurasian National University 3) Aliya Kintonova, Kazakhstan, L.N. Gumilyov Eurasian National University 4) Furayeva I., Kazakhstan, L.N. Gumilyov Eurasian National University 5) Natalya Glazyrina, Kazakhstan, L.N. Gumilyov Eurasian National University 6) Anastasiya Senkovskaya, Kazakhstan, L.N. Gumilyov Eurasian National University Augmented Reality Application for Applicants
ID 240	1) Ye. Begimbayeva, Kazakhstan, Institute of Information and Computational Technologies MES RK, Satbayev University 2) O. Ussatova, Kazakhstan, Institute of Information and Computational Technologies MES RK 3) N. Ussatov, Kazakhstan, Turan University Practical application of the hashing algorithm for electronic digital signature
ID 247	1) Asset Kali, Kazakhstan, Suleyman Demirel University 2) Diana Bolatova, Kazakhstan, Suleyman Demirel University Nonlinear modeling of COVID-19 and the significance of testing: the case of Kazakhstan
ID 261	1) Zhanna Alimzhanova, Kazakhstan, Al-Farabi Kazakh National University 2) Aivar Alimzhanov, Kazakhstan, Al-Farabi Kazakh National University 3) Dauren Nazarbayev, Kazakhstan, Al-Farabi Kazakh National University 4) Akzer Tleubergen, Kazakhstan, Al-Farabi Kazakh National University

	Analysis of block ciphers characteristics for CBC and OFB modes when input data are shifted
13:30	Lunch
14:30	ROOM 3
ID 30	1) Dinara Tursynbayeva, Kazakhstan, Zhetysu University 2) Raushan Kabatayeva, Kazakhstan, International IT University 3) Aliya Akzholova, Kazakhstan, Zhetysu University 4) Anastasiya Shendel, Kazakhstan, Zhetysu University Role of computer simulation for studying properties of magnetic field
ID 31	1) Mykola Tsiutsiura, Ukraine, Kyiv National University of Construction and Architecture 2) Nataliia Kostyshyna, Ukraine, Kyiv National University of Construction and Architecture 3) Andrii Yerukaiev, Ukraine, Kyiv National University of Construction and Architecture 4) Serhii Danylyshyn, Ukraine, Kyiv National University of Construction and Architecture 5) Yevhenii Honcharenko, Ukraine, Kyiv National University of Construction and Architecture 6) Li Tao, Ukraine, Kyiv National University of Construction and Architecture Research of housing comfort using linguistic variables
ID 50	1) Asset Akhmadiya, Kazakhstan, S.Seifullin Kazakh Agro Technical University 2) Nabi Nabiyeu, Kazakhstan, S.Seifullin Kazakh Agro Technical University 3) Khuralay Moldamurat, Kazakhstan L.N.Gumilyov Eurasian National University 4) Aigerim Kismanova, Kazakhstan, S.Seifullin Kazakh Agro Technical University 5) Bekzat Prmantayeva, Kazakhstan L.N.Gumilyov Eurasian National University 6) Saule Brimzhanova, Kazakhstan, Kostanay Academy of the Ministry of Internal Affairs of the Republic of Kazakhstan named after Shrakbek Kabylbaev Application of GLCM textural based method with Sentinel-1 radar remote sensing data for building damage assessment
ID 102	1) Moldamurat Khuralay, Kazakhstan L. N. Gumilyov Eurasian National University 2) Akhmejanov Sayat, Kazakhstan L. N. Gumilyov Eurasian National University 3) Kariyeva Kamila, Kazakhstan L. N. Gumilyov Eurasian National University 4) Omarov Zhanggir, Kazakhstan L. N. Gumilyov Eurasian National University 5) Kalibekov Dias, Kazakhstan L. N. Gumilyov Eurasian National University 6) Sayassat Nurbakytbek, Kazakhstan L. N. Gumilyov Eurasian National University Design and optimization of parameters of a hybrid unmanned aerial vehicle in the SolidWorks complex
ID 125	1) Madina Alimanova, Kazakhstan, Suleyman Demirel University 2) Aiganym Soltiyeva, Kazakhstan, Suleyman Demirel University 3) Marat Urmanov, Kazakhstan, Suleyman Demirel University 4) Shyngys Adilkhan, Kazakhstan, Suleyman Demirel University Developing an immersive virtual reality training system to enrich social interaction and communication skills for children with autism spectrum disorder
ID 127	1) Iurii Teslia, Ukraine, Cherkasy State Technological University 2) Nataliia Yehorchenkova, Ukraine, Kyiv National University of Construction and Architecture 3) Iulia Khlevna, Ukraine, Taras Shevchenko National University of Kyiv 4) Oleksii Yehorchenkov, Ukraine, Taras Shevchenko National University of Kyiv

	5) Yevheniia Kataieva, Ukraine, Cherkasy State Technological University 6) Ganna Klevanna, Ukraine, Cherkasy State Technological University Development of reflex technology of action identification in project planning systems
15:30	Coffee break
16:00	ROOM 3
ID 171	1) Mehmet Karahan, Turkey, TOBB University of Economics and Technology 2) Cosku Kasnakoglu, Turkey, TOBB University of Economics and Technology Stability Analysis and Optimum Controller Design for an Inverted Pendulum on Cart System
ID 174	1) Samal Abdrakhmanova, Kazakhstan, Buketov Karaganda University 2) Galiya Sarzhanova, Kazakhstan, Buketov Karaganda University Digital technology trends among English teachers in the condition of modernization of the higher education
ID 181	1) Nazym Shogelova, Kazakhstan, Manash Kozybayev North Kazakhstan University 2) Sartin Sergey, Kazakhstan, Manash Kozybayev North Kazakhstan University Building a model of the spring flood on the Ishim river using an Unmanned Aerial Vehicle
ID 182	1) Tetyana Sergeyeva, Ukraine, National Technical University "Kharkiv Polytechnic Institute" 2) Sergiy Bronin, Ukraine, Taras Shevchenko National University of Kyiv 3) Natalya Turlakova, Ukraine, National Technical University "Kharkiv Polytechnic Institute" Multidisciplinary dimension of e-learning in the innovative eco-system of a modern university
ID 194	1) Maksym Lupei, Ukraine, Institute of Cybernetics of National Academy of Sciences of Ukraine 2) Oleksandr Mitsa, Ukraine, Uzhhorod National University 3) Vasyly Sharkan, Ukraine, Uzhhorod National University 4) Sabolch Vargha, Ukraine, Uzhhorod National University 5) Vasyly Gorbachuk, Ukraine, Institute of Cybernetics of National Academy of Sciences of Ukraine The Identification of Mass Media by Text Based on the Analysis of Vocabulary Peculiarities Using Support Vector Machines
ID 203	1) Pouya Rezaei, Iran, Babol Noshirvani University of Technology 2) Alireza Khosravi, Iran, Babol Noshirvani University of Technology Parametric Model Identification of Nonlinear Aircraft System with Actuator Saturation
ID 221	1) Kymbat Ramadinkyzy, Kazakhstan, Al-Farabi Kazakh National University 2) Bolatzhan Kumalakov, Kazakhstan, Astana IT University Wi-Fi Signal Based Human Activity Recognition Using Deep Learning
ID 226	1) Alimzhanova Zhanna, Kazakhstan, Al-Farabi Kazakh National University 2) Salamat Zhunusbayeva, Kazakhstan, Al-Farabi Kazakh National University 3) Kamila Alibekova, Kazakhstan, Al-Farabi Kazakh National University 4) Raushan Zhumakanova, Kazakhstan, Al-Farabi Kazakh National University Statistical data analysis, to determine the boundaries of the confidence interval in order to find the module N in the RSA algorithm
ID 227	1) Alimzhanova Zhanna, Kazakhstan, Al-Farabi Kazakh National University 2) Nazarbayev Dauren, Kazakhstan, Al-Farabi Kazakh National University

	3) Tleubergen Akzer, Kazakhstan, Al-Farabi Kazakh National University 4) Salamat Zhunusbayeva, Kazakhstan, Al-Farabi Kazakh National University Comparative analysis of risk assessment during an enterprise information security audit
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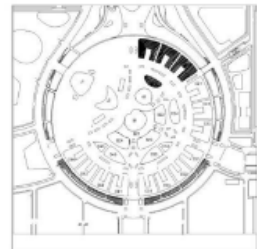
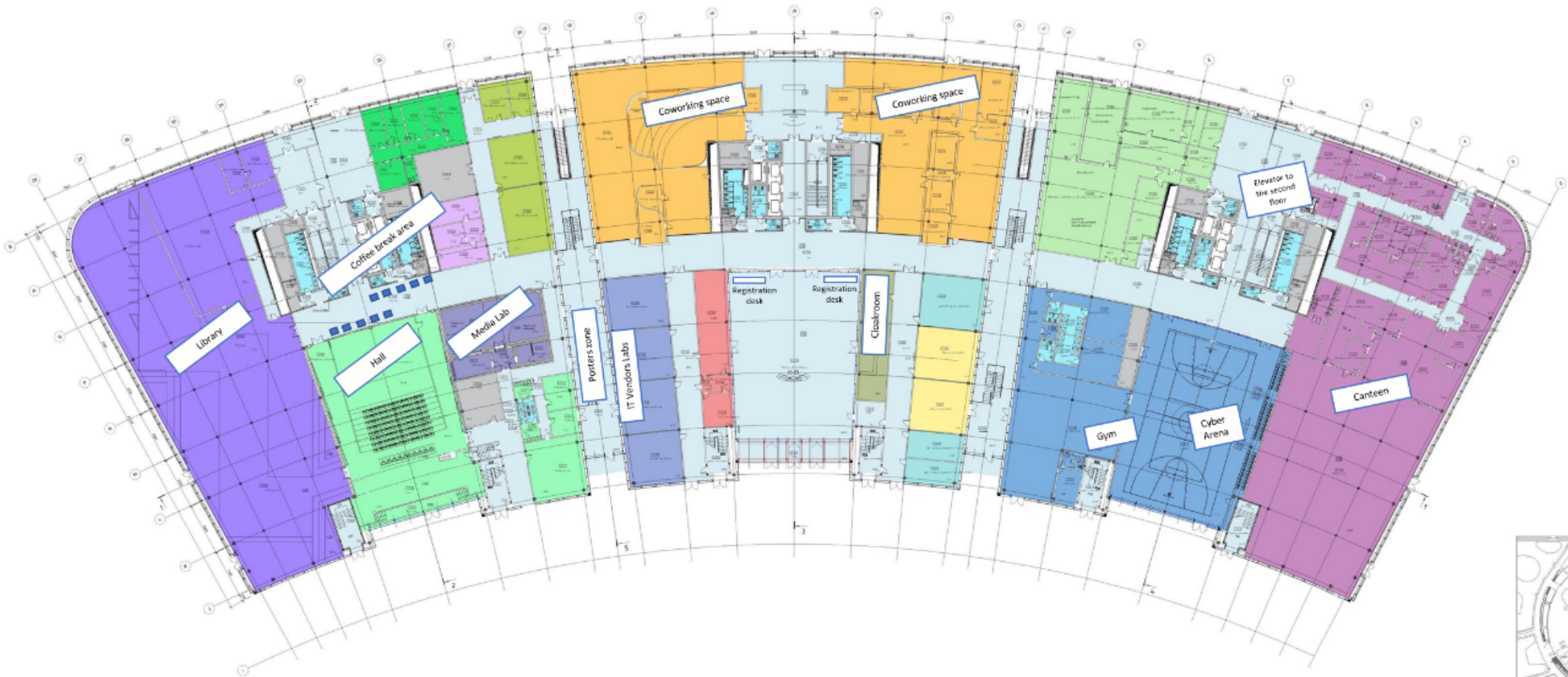
30 APRIL (Saturday)

10:00	Plenary session: conference results. Conference closing
13:00	Lunch

**Excursion program at the University for participants
of 2022 International Conference on
Smart Information Systems and Technologies
28 April 9:30 – 10:00**

№	Venue	Time
1	Visit to the scientific library	3 min
2	Visit to the media laboratory	3 min
3	Visits to laboratories of Cisco, Huawei, Pearson Vue, Kaspersky	4 min
4	Visit to Coworking space	4 min
5	Visit to the gym, Cyber Arena	3 min
6	Visit to FabLab	6 min
7	Visit to Apple laboratory	2 min
8	Visit to 1C laboratory	2 min
9	Visit to Open Space	3 min

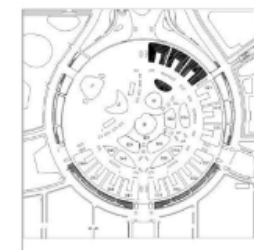
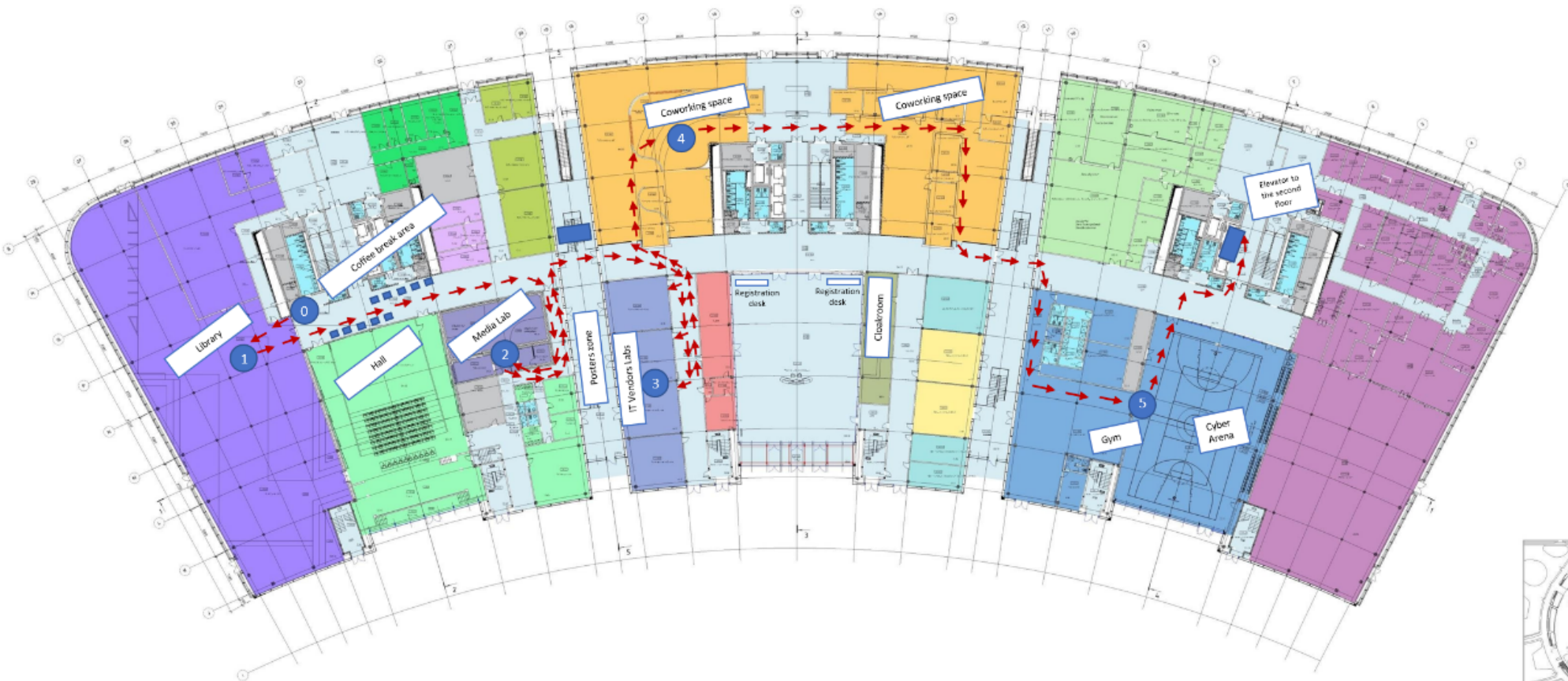
План-схема 1-этажа



Условные обозначения

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

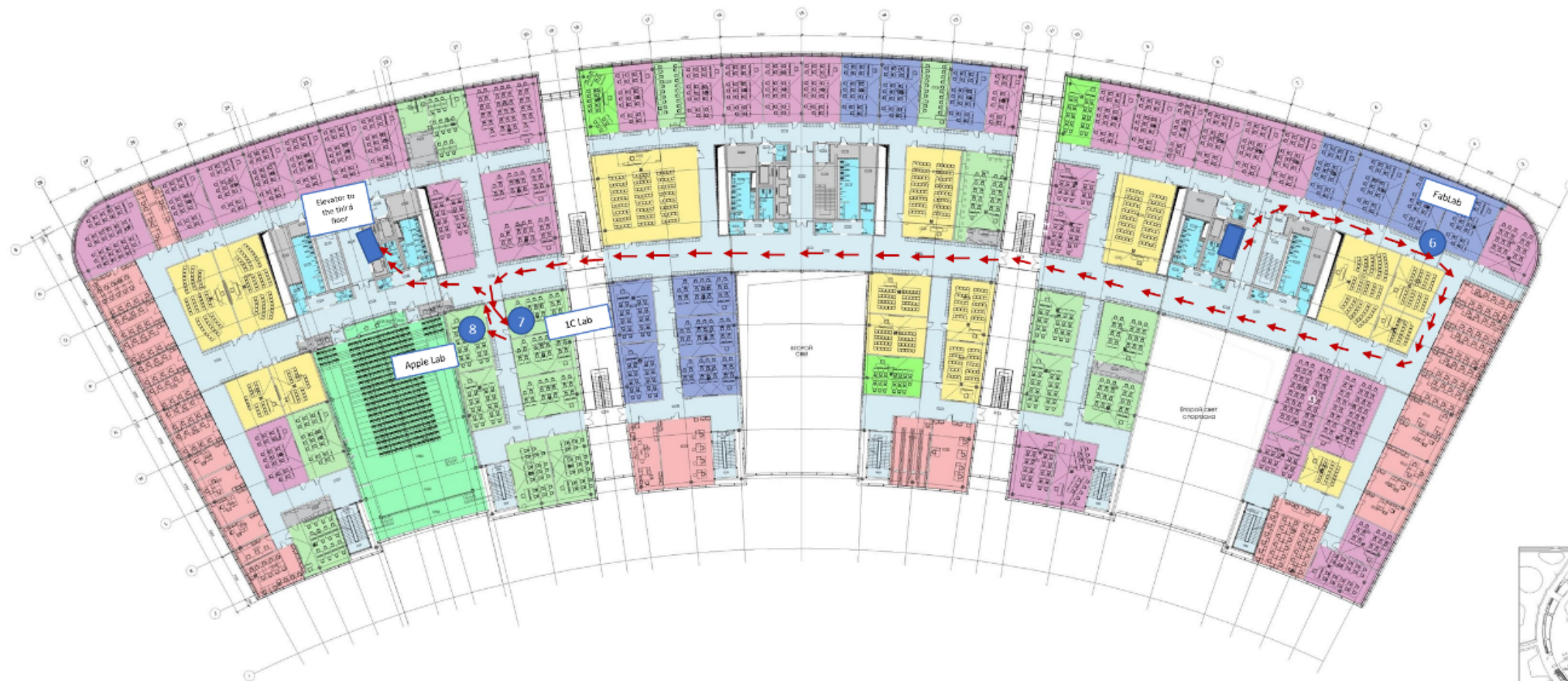
План-схема 1-этажа



Условные обозначения

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

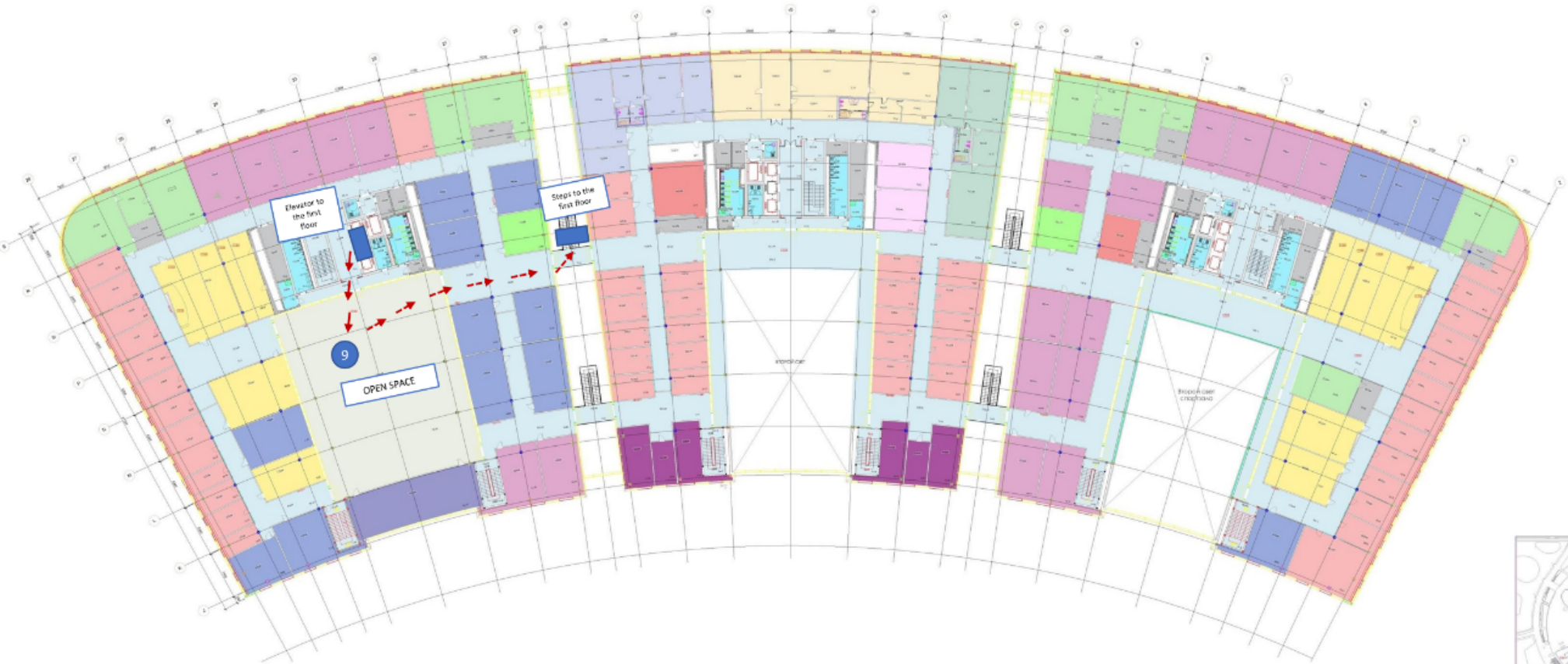
План-схема 2-этажа





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

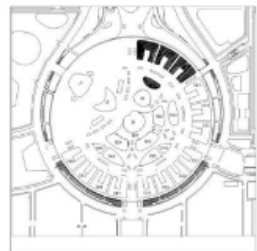
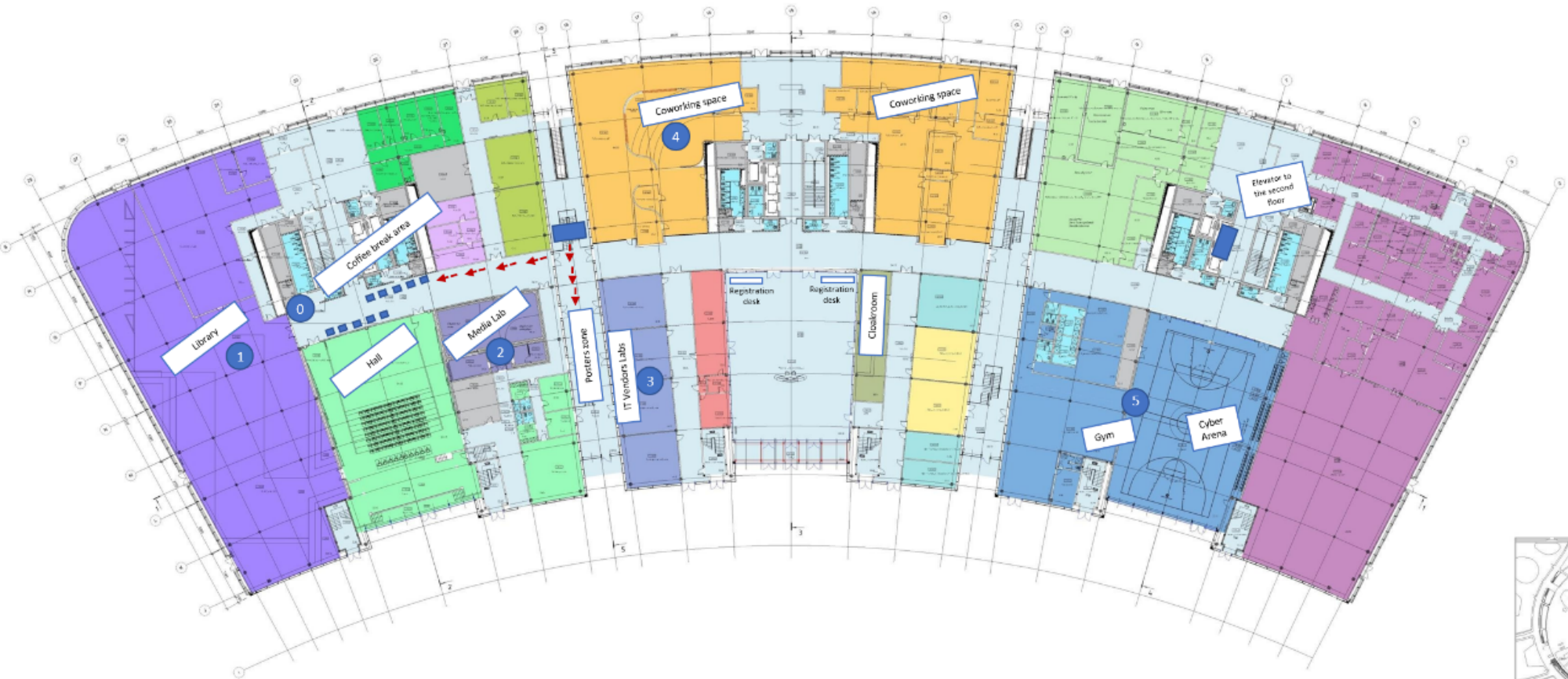
План-схема 3-этажа



Условные обозначения

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	Компьютерные классы		Коворкинг		Директор ОФ "ФОНН"		Кафетерий		Санузлы, ПУИ		

План-схема 1-этажа



Условные обозначения

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