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IEEE SIST 2023

2023 IEEE International Conference
on Smart Information
Systems and Technologies

CONFERENCE PROGRAM

GENERAL SPONSOR



Astana, Kazakhstan
4-6 May 2023

**2023 IEEE INTERNATIONAL CONFERENCE
ON SMART INFORMATION SYSTEMS AND TECHNOLOGIES**

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

Bagdat Mussin, Minister of Digital Development, Innovations and Aerospace Industry of the Republic of Kazakhstan, *Kazakhstan* (by approval)

Darkhan Akhmed-Zaki, Chairman of the Science Committee of the Ministry of Science and Higher Education of the Republic of Kazakhstan, *Kazakhstan*

Sultan Aitzhanov, Deputy Director of the Public Foundation “Fund of Nursultan Nazarbayev”, *Kazakhstan*

Svetlana Murzabekova, Director of the Public Foundation “Education Fund of Nursultan Nazarbayev”, Candidate of Economic Sciences, IPMA, MBA, *Kazakhstan*

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**2023 IEEE International Conference on Smart Information Systems and Technologies
Astana IT University**

**55/11 Mangilik Yel av., EXPO Pavilion, Block C1
Astana, Kazakhstan**

CONFERENCE PROGRAM

Time	Event	Venue, participants
4 May (Thursday)		
9:00 – 10:00	Participants registration	Offline – online
9:30 – 10:00	Welcome coffee	Room C1.1
10:00 – 12:30	Official opening, Plenary session	Offline – online. Assembly Hall. Conference participants
12:30 – 13:00	University tour, excursion	
13:00 – 14:30	Lunch	Room C1.3
14:30 – 16:00	Section presentations.	Laboratories of vendors. Conference participants
16:00 – 16:20	Coffee break	Room C1.1
16:20 - 18:00	Section presentations	Laboratories of vendors. Conference participants
19:00	Gala dinner	Room C1.3
5 May (Friday)		
9:30 – 10:00	Welcome coffee	Room C1.1
10:00 – 13:00	Plenary session	Assembly Hall. Conference participants
13:00 – 14:30	Lunch	Room C1.3
14:30 – 16:00	Section presentations	Laboratories of vendors. Conference participants
16:00 – 16:20	Coffee break	Room C1.1
16:20 – 18:00	Section presentations	Laboratories of vendors. Conference participants
19:00	Culture programme	
6 May (Saturday)		
9:00 – 10:00	Dialogue platform for discussion of reports	Room C1.1
10:00 - 13:30	Plenary session: conference results. Conference closing	Assembly Hall. Conference participants
12:00 – 12:20	Coffee break	Room C1.1
13:30	City tour	

PLENARY SESSION
4 MAY 2023 (Thursday)

Venue: Assembly Hall, Astana IT University

Online: Zoom session

<https://us06web.zoom.us/j/82300485353?pwd=VDR5K2dFR01MZDh6ZzdWcUNybkJ4UT09>

09:00	Participants registration
09:30	Welcome coffee
10:00	Greetings <ol style="list-style-type: none"> 1. <i>Serik Omirbayev, Acting Rector of Astana IT University, Kazakhstan</i> 2. <i>Sayasat Nurbek, Minister of Science and Higher Education of the Republic of Kazakhstan (by approval)</i> 3. <i>Bagdat Mussin, Minister of Digital Development, Innovations and Aerospace Industry of the Republic of Kazakhstan (by approval)</i> 4. <i>Sultan Aitzhanov, Deputy Director of the Public Foundation “Fund of Nursultan Nazarbayev”, Kazakhstan</i> 5. <i>Svetlana Murzabekova, Director of the Public Foundation “Education Fund of Nursultan Nazarbayev”, Candidate of Economic Sciences, IPMA, MBA, Kazakhstan</i>
10:30-12:30	Plenary presentations
10:30	<i>Darkhan Akhmed-Zaki, Doctor of Technical Sciences, Chairman of the Science Committee of the Ministry of Science and Higher Education of the Republic of Kazakhstan (presentation theme to be agreed)</i>
10:45	<i>Nursultan Kaldybaev, Chairman of the Board of JSC "Astana Innovations" (presentation theme to be agreed)</i>
11:00	<i>Sheref Sagiroglu, PhD, Professor at Gazi University (Ankara, Turkey), Director of AI & Big Data Analytics & Security R&D Center, (h-index: 30)</i> « Big Data Analytics, Security and Privacy Issues in Smart Energy Systems ».
11:15	<i>Pakizar Shamoï, PhD, Professor, School of Information Technology and Engineering, Kazakh-British Technical University, Almaty (Kazakhstan), (h-index: 4)</i> « Fuzzy color processing in Content-Based Image Retrieval Systems »
11:30	<i>Khaled Rabie, PhD, Faculty of Engineering, Manchester Metropolitan University (Manchester, UK), (h-index: 30)</i> « 5G-6G Technology »
11:45	<i>Ibraheem Shayea, PhD, Professor of the Faculty of Electrical and Electronic Engineering, Department of Electronics and Communication Technology, Istanbul Technical University (Istanbul, Turkey), (h-index: 17)</i>
12:00	<i>Sergiy Bushuyev, Doctor of Technical Sciences, Professor, Head of the Department of Project Management, Kyiv National University of Construction and Architecture (Kyiv, Ukraine), (h-index: 14)</i> « AI in IT project management »
12:15	<i>Olexander Kuchansky, Doctor of Technical Sciences, Professor, Head of the Department of Information Systems and Technologies, Faculty of Information Technologies, Taras Shevchenko National University of Kyiv (Kyiv, Ukraine), (h-index: 14)</i> « Scientometric study of research productivity »
12:30	Excursion at Astana IT University
13:00	Lunch
14:30-18:00	Section presentations
16:00-16:20	Coffee break
19:00	Gala Dinner

PLENARY SESSION
5 MAY 2023 (Friday)

Venue: Assembly Hall, Astana IT University

Online: Zoom session

<https://us06web.zoom.us/j/82300485353?pwd=VDR5K2dFR01MZDh6ZzdWcUNybkJ4UT09>

09:30	Welcome coffee
10:00	Greetings
10:00-13:00	Plenary presentations
10:00	<i>Minsoo Hahn, Ph.D, Professor, Astana IT University (Astana, Kazakhstan), (h-index: 17)</i>
10:15	<i>Essam Shehab, Professor, Head of the Department of Mechanical Engineering and Aerospace Engineering, School of Engineering and Digital Sciences, Nazarbayev University (Astana, Kazakhstan), (h-index: 26)</i> «Industrial Digitalization Projects for World-Class Aerospace Companies»
10:30	<i>Nurken Mussabayev, Vice-Rector for Digitalization of the University of International Business (Almaty, Kazakhstan)</i> «Формирование бизнес модели для эффективной цифровой трансформации»
10:45	<i>Carsten Wolff, Doctor of Engineering, Professor of Computer Science at Dortmund University of Applied Sciences and Arts (FH Dortmund), Director of the Institute for the Digital Transformation of Application and Living Domains (IDiAL, Dortmund, Germany) (h-index: 9)</i> «Managing the Digital Change – How Digital Transformation Projects can be managed successfully»
11:00	<i>Suat Özdemir, Ph.D, Professor, Department of Computer Science, Faculty of Engineering, Hacettepe University (Ankara, Turkey), (h-index: 25)</i> «AI in Fog Computing»
11:15	<i>Almaz Sauhimov, PhD, Vice-Rector for Scientific and Innovation Activities of the Almaty University of Energy and Communications (Almaty, Kazakhstan)</i>
11:30	<i>Ravil Mukhamediev, Doctor of Technical Sciences, Professor of the Department of Software Engineering, Kazakh National Research Technical University named after K. I. Satbayev (Almaty, Kazakhstan), (h-index: 8)</i> «Machine learning in applications»
11:45	<i>Madina Mansurova, Candidate of Ph.D., Head of the Department of Artificial Intelligence and Big Data, Al-Farabi Kazakh National University (Almaty, Kazakhstan), (h-index: 4)</i> «Automatic extraction of spatial objects from heterogeneous sources for information support of geographic information systems»
12:00	<i>Danil Lebedev, Ph.D., Associate Professor, Vice-Rector for Digitalization of Astana IT University, (Astana, Kazakhstan), (h-index: 4)</i> «Development of an information system within the concept of the Digital University»
12:15	<i>Andrii Biloshchytskyi, Doctor of Technical Sciences, Professor, Vice-Rector for Science and Innovation at Astana IT University (Astana, Kazakhstan) (h-index: 14)</i> «Scientific research activity of Astana IT University»
12:30	Acquaintance with scientific projects of Astana IT University
13:00	Lunch
14:30-18:00	Section presentations

16:00-16:20	Coffee break
19:00	Culture programme

**PLENARY SESSION
6 MAY 2023 (Saturday)**

Venue: Assembly Hall, Astana IT University

Online: Zoom session

<https://us06web.zoom.us/j/82300485353?pwd=VDR5K2dFR01MZDh6ZzdWcUNybkJ4UT09>

9:00	Dialogue platform for discussion of reports
10:00	Plenary session: conference results. Conference closing
12:00	Coffee break
13:30	City tour

SECTION PRESENTATIONS

4 MAY 2023 (Thursday)

Section 1

<https://us06web.zoom.us/j/86355071725?pwd=ZVJXd2pmVXFFLzJlb2JPT0ZjRDNHZz09>

Section 2

<https://us06web.zoom.us/j/84266641361?pwd=Smk2Q1BpTUK4Mks4THhOUeIkck12Zz09>

Section 3

<https://us06web.zoom.us/j/85038656755?pwd=QkZxZUVrRUdzWmozZkE5M0wzZnJLQT09>

Section 4

<https://us06web.zoom.us/j/82343163187?pwd=N1R1ejBmVDRxVFpqWEwwOTINRDBqQT09>

09:00	Participants registration
09:30	Welcome coffee
10:00	Greetings
10:30	Plenary presentations (Venue: Assembly Hall)
13:00	Lunch
14:30	Section presentations
14:30 16:00	SECTION 1. Technology and Engineering Management
ID 11	1) Nurgul Izbasova, Yessenov University, Kazakhstan 2) Valeriy Lakhno, National University of Life and Environmental Sciences of Ukraine, Ukraine 3) Nurzhamal Oshanova, Abai University, Kazakhstan 4) Jamilya Akhmetova, Yessenov University, Kazakhstan Information System for Accounting of University Teachers' Ratings
ID 30	1) Bushuyev D. Sergiy, Kyiv National University of Construction and Architecture, Ukraine 2) Bushuyeva Natalia, Kyiv National University of Construction and Architecture, Ukraine 3) Bushuiev Denis, Kyiv National University of Construction and Architecture, Ukraine 4) Victoria Bushuieva, Kyiv National University of Construction and Architecture, Ukraine 5) Dmytro Iazykov, Kyiv National University of Construction and Architecture, Ukraine 6) Andrii Ivko, Kyiv National University of Construction and Architecture, Ukraine Principles of Circular Economy as a Driver of Development Projects
ID 33	1) Bushuyev D. Sergiy, Kyiv National University of Construction and Architecture, Ukraine

	<p>2) Bushuyeva Natalia, Kyiv National University of Construction and Architecture, Ukraine</p> <p>3) Victoria Bushuieva, Kyiv National University of Construction and Architecture, Ukraine</p> <p>4) Denis Bushuiev, Kyiv National University of Construction and Architecture, Ukraine</p> <p>Integrated Intelligence Model for Assessment Digital Transformation Project</p>
ID 52	<p>1) Zhanerke Temirbekova, Al-Farabi Kazakh National University, Kazakhstan</p> <p>2) Kabdygaliyev Nurdaulet, Al-Farabi Kazakh National University, Kazakhstan</p> <p>3) Zukhra Abdiakhmetova, Al-Farabi Kazakh National University, Kazakhstan</p> <p>4) Gulzat Turken, Al-Farabi Kazakh National University, Kazakhstan</p> <p>Preservation of Confidentiality Based on Homomorphic Encryption Library for IoT</p>
ID 64	<p>1) Danagul Koshanova, L.N. Gumilyov Eurasian National University, Kazakhstan</p> <p>2) Periuza Pirniyazova, Kazakh National Women's Teacher Training University, Kazakhstan</p> <p>Mathematical Modeling to Estimate the Diffusion of Traffic – Related Air Pollutants in Almaty City</p>
ID 88	<p>1) Asset A. Akhmadiya, S. Seifullin Kazakh AgroTechnical University, Kazakhstan</p> <p>2) Arman Mirmanov, S. Seifullin Kazakh AgroTechnical University, Kazakhstan</p> <p>3) Nabi Nabiyeu, S. Seifullin Kazakh AgroTechnical University, Kazakhstan</p> <p>4) Saule Bostanova, S. Seifullin Kazakh AgroTechnical University, Kazakhstan</p> <p>5) Tansaule Serikov, S. Seifullin Kazakh AgroTechnical University, Kazakhstan</p> <p>6) Kudaibergen Ibrayev, S. Seifullin Kazakh AgroTechnical University, Kazakhstan</p> <p>Assessing Battery Life and Accuracy of Modern GPS Trackers for Herd Horse Breeding</p>
ID 89	<p>1) Serhii Chernov, Admiral Makarov National University of Shipbuilding, Ukraine</p> <p>2) Serhii Titov, Admiral Makarov National University of Shipbuilding, Ukraine</p> <p>3) Liudmyla Chernova, Admiral Makarov National University of Shipbuilding, Ukraine</p> <p>4) Liubava Chernova, Admiral Makarov National University of Shipbuilding, Ukraine</p> <p>5) Antonina Trushliakova, Admiral Makarov National University of Shipbuilding, Ukraine</p> <p>The Behavior Antagonism in the IT Project Management</p>
16:00	Coffee break
16:20 18:00	SECTION 1. Technology and Engineering Management
ID 111	<p>1) Serhii Slobodian, Admiral Makarov National University of Shipbuilding, Ukraine</p> <p>2) Yuriy Kharytonov, Admiral Makarov National University of Shipbuilding, Ukraine</p> <p>Projects of Digital Transformation of Shipbuilding Enterprises</p>
ID 114	<p>1) Lyazzat Issabekova S., Institute of Information and Computational Technologies, Kazakhstan</p> <p>2) Utepbergenov T., Almaty State University of Energy and Communications named after G. Daukeev</p>

	<p>3) Toibayeva SH. D, Almaty State University of Energy and Communications named after G. Daukeev</p> <p>4) Makulov Kaiyrbek, Caspian University of Technology and Engineering named after Sh. Yessenov</p> <p>Improving the Temperature and Humidity Control System Based on Fuzzy Logic</p>
ID 115	<p>1) Beibit Karibayev, Al-Farabi Kazakh National University, Kazakhstan</p> <p>2) Nursultan Meirambekuly, Al-Farabi Kazakh National University, Kazakhstan</p> <p>3) Timur Namazbayev, Al-Farabi Kazakh National University, Kazakhstan</p> <p>4) Bagdat Kozhakhmetova, Almaty University of Power Engineering and Telecommunications named after G. Daukeyev, Kazakhstan</p> <p>5) Katipa Chizhimbayeva, Almaty University of Power Engineering and Telecommunications named after G. Daukeyev, Kazakhstan</p> <p>6) Aigul Kulakayeva, International Information Technologies University, Kazakhstan</p> <p>The Possibilities of Using Fractal Antennas in Modern Wireless Communication Technologies</p>
ID 123	<p>1) Galyna Ryzhakova, Kyiv National University of Construction and Architecture, Ukraine</p> <p>2) Tetyana Honcharenko, Kyiv National University of Construction and Architecture, Ukraine</p> <p>3) Kostyantyn Predun, Kyiv National University of Construction and Architecture, Ukraine</p> <p>4) Nina Petrukha, Kyiv National University of Construction and Architecture</p> <p>5) Oksana Malykhina, Kyiv National University of Construction and Architecture, Ukraine</p> <p>6) Oleksandr Khomenko, Kyiv National University of Construction and Architecture, Ukraine</p> <p>Using of Fuzzy Logic for Risk Assessment of Construction Enterprise Management System</p>
ID 135	<p>1) Ustinova Iryna, Kyiv National University of Construction and Architecture, Ukraine</p> <p>Fundamental Laws and Space-Time Measurements of Ecological Urban-Planning Systems as the Basis of Advanced Analytics of Urbanized Territories Development</p>
ID 158	<p>1) Arailym Tleubayeva, Astana IT University, Kazakhstan</p> <p>2) Baurzhan Ospan, Umai Cloud Services, Kazakhstan</p> <p>3) Aigul Shaikhanova, L.N. Gumilyov Eurasian National University, Kazakhstan</p> <p>4) Nurbakyt Darmenkyzy, Astana IT University, Kazakhstan</p> <p>5) Mariyam Abu, Astana IT University, Kazakhstan</p> <p>6) Ayan Sultan, Umai Cloud Services, Kazakhstan</p> <p>Machine Learning Expert System for Recognizing Emotions in Text “Umai Cloud Services”</p>
ID 159	<p>1) Irbulat Utebergenov, Almaty University of Power Engineering and Telecommunications, Kazakhstan</p> <p>2) Shara Toibayeva, Almaty University of Power Engineering and Telecommunications, Kazakhstan</p> <p>3) Lyazzat Issabekova S., Al-Farabi Kazakh National University, Kazakhstan</p> <p>On an Integrated Automated Approach to Enterprise Quality Management</p>

ID 168	<p>1) Kateryna Kolesnikova, International IT University, Kazakhstan 2) Alua Myrzakerimova, International IT University, Kazakhstan 3) Nursultan Alpysbay, International IT University, Kazakhstan 4) Tetiana Olekh, Odessa National Polytechnic University, Ukraine</p> <p>Transforming Cognitive Maps into Markov Process Models for Software Development Projects</p>
19:00	GALA DINNER
14:30 16:00	SECTION 2. IT in Education and Research
ID 1	<p>1) Aigerim Rakhysh, Al-Farabi Kazakh National University, Kazakhstan 2) Aiym Omar, Al-Farabi Kazakh National University, Kazakhstan 3) Baiterek Baimyrza, Al-Farabi Kazakh National University, Kazakhstan 4) Karlygash Baisholanova, Al-Farabi Kazakh National University, Kazakhstan 5) Kazilla Kubayev, Al-Farabi Kazakh National University, Kazakhstan</p> <p>The Significance of Using Gamification Elements in the Educational Process</p>
ID 25	<p>1) Bakhytzhan Akhmetov, Abai University, Kazakhstan 2) Valeriy Lakhno, National University of Life and Environmental Sciences of Ukraine 3) Nurzhamal Oshanova, Abai University, Kazakhstan 4) Zhuldyz Alimseitova, Satbayev University, Kazakhstan 5) Askhat Zhilkishbayev, Yessenov University, Kazakhstan</p> <p>Development of the Digital Infrastructure of Universities in the New Reality of Higher Education</p>
ID 36	<p>1) Baigarayeva Zhanel, Al Farabi Kazakh National University, Kazakhstan 2) Boris Resnik, Berliner Hochschule für Technik, Germany 3) Madina Mansurova, Al Farabi Kazakh National University, Kazakhstan 4) Gulshat Amirkhanova, Al Farabi Kazakh National University, Kazakhstan 5) Bibars Amangeldy, Al Farabi Kazakh National University, Kazakhstan 6) Tasmurzayev Nurdaulet, Al Farabi Kazakh National University, Kazakhstan</p> <p>The Classification System of Vehicles on Road Structures Using Artificial Intelligence</p>
ID 50	<p>1) Nataliia Kostyshyna, Kyiv National University of Construction and Architecture 2) Denys Chernyshev, Kyiv National University of Construction and Architecture 3) Svitlana Tsiutsiura, Kyiv National University of Construction and Architecture 4) Andrii Yerukaiev, Kyiv National University of Construction and Architecture 5) Vladyslav Hots, Kyiv National University of Construction and Architecture 6) Yuliia Riabchun, Kyiv National University of Construction and Architecture</p> <p>Evaluation of the Comfort of an Apartment Building Using Different Modeling Methods</p>
ID 59	<p>1) Nataliia Yehorchenkova, Slovak University of Technology in Bratislava, Slovakia 2) Oleksii Yehorchenkov, Slovak University of Technology in Bratislava, Slovakia</p> <p>"Digital Professor": Interactive Learning with Chatbot Technology</p>
16:00	Coffee break
16:20 18:00	SECTION 2. IT in Education and Research

ID 92	<ol style="list-style-type: none"> 1) Olha Yudicheva, Kyiv National University of Construction and Architecture, Ukraine 2) Oksana Bondar-Pidgurska, Poltava University of Economics and Trade, Ukraine 3) Alla Glebova, National University "Poltava Polytechnic named after Yury Kondratyuk, Ukraine 4) Olesia Romanenko, Kyiv National University of Construction and Architecture, Ukraine 5) Yuliia Kovalchuk, Kyiv National University of Construction and Architecture, Ukraine 6) Liudmyla Alaverdian, Kyiv National University of Construction and Architecture, Ukraine <p>Practical Application of Information and Communication Technologies in Ukraine Higher Education Institutions Under the Conditions of the Development of the Digital Economy: Generalisation of Experience</p>
ID 96	<ol style="list-style-type: none"> 1) Valerii Lakhno, National University of Life and Environmental Sciences of Ukraine 2) Volodymyr Malyukov, National University of Life and Environmental Sciences of Ukraine 3) Bakhtyghan Akhmetov, Abai Kazakh National Pedagogical University, Kazakhstan 4) Bagdat Yagaliyeva, Yessenov University, Kazakhstan 5) Olena Kryvoruchko, Kyiv National University of Trade and Economics, Ukraine 6) Alona Desiatko, Kyiv National University of Trade and Economics, Ukraine <p>University Distributed Computer Network Vulnerability Assessment</p>
ID 100	<ol style="list-style-type: none"> 1) Asel Zhumakhanova, Al-Farabi Kazakh National University, Kazakhstan <p>Creating Steganography Methods for Recognizing Text Message with Hidden Content</p>
ID 107	<ol style="list-style-type: none"> 1) Yuliia Kostiuk, Kyiv National University of Trade and Economics, Ukraine 2) Olena Kryvoruchko, Kyiv National University of Trade and Economics, Ukraine 3) Alona Desiatko, Kyiv National University of Trade and Economics, Ukraine 4) Yuliia Samoilenko, National University of Food Technologies, Ukraine 5) Kateryna Stepashkina, State University of Trade and Economics, Ukraine 6) Rostislav Zakharov, State University of Trade and Economics, Ukraine <p>Information and Intelligent Forecasting Systems Based on the Methods of Neural Network Theory</p>
ID 116	<ol style="list-style-type: none"> 1) Mykola Tsiutsiura, Kyiv National University of Construction and Architecture, Ukraine 2) Elena Gorda, Kyiv National University of Construction and Architecture, Ukraine <p>Ontological Analysis of Cognitive Information Technologies of the Subject Field</p>
ID 130	<ol style="list-style-type: none"> 1) Muhtar Zhasuzak, Al-Farabi Kazakh National University, Kazakhstan 2) Daniyar Dauletiya, Al-Farabi Kazakh National University, Kazakhstan 3) Amir Turegali, Al-Farabi Kazakh National University, Kazakhstan 4) Zemfira Abdirazak, Al-Farabi Kazakh National University, Kazakhstan 5) Zholdas Buribayev, Al-Farabi Kazakh National University, Kazakhstan <p>Comparative analysis of the work of algorithms for extracting features from images for modifying the SLAM algorithm</p>
19:00	GALA DINNER
14:30	SECTION 3. Emerging Trends and Technologies in IT Application

16:00	
ID 4	1) Jinat Ara, University of Pannonia, Hungary 2) Cecilia Sik-Lanyi, University of Pannonia, Hungary AccGuideLiner: Towards a Modelling Approach of Web Accessibility Requirements following WCAG 2.2
ID 6	1) Sabah Mohammed, Lakehead University, Canada 2) Jinan Fiaidhi, Lakehead University, Canada 3) Darien Sawyer, Lakehead University, Canada Problem-Oriented Medical Records for Describing Care Cases using multi-Tenants Chatbots
ID 7	1) Jinan Fiaidhi, Lakehead University Canada 2) Sabah Mohammed, Lakehead University, Canada 3) Petros Zezos, Norther Ontario Medical School University, Canada Thick Data Categorization of Crohn’s Segments from Capsule Endoscopy Videos
ID 16	1) Mendybayev Birlik, L. N. Gumilyov Eurasian National University, Kazakhstan, Composite Citizens in The Smart City: Rethinking the Roles
ID 27	1) Anel Zhumabekova, Nazarbayev University, Kazakhstan 2) Nurtilek Sagynbeyev, Nazarbayev University, Kazakhstan 3) Nurbakyt Marat, Nazarbayev University, Kazakhstan 4) Md Hazrat Ali, Nazarbayev University, Kazakhstan Design and Development of a Smart “Baby NO CRY” Cradle
ID 48	1) Beken Arymbekov, Al-Farabi Kazakh National University, Kazakhstan Augmented Reality Application to Support Visualization of Physics Experiments
ID 57	1) Zhexen Seitbattalov, L. N. Gumilyov Eurasian National University, Kazakhstan 2) Hüseyin Canbolat, Ankara Yıldırım Beyazıt University, Turkey 3) Sabyrzhan Atanov, L. N. Gumilyov Eurasian National University, Kazakhstan 4) Zhanar Moldabayeva, L. N. Gumilyov Eurasian National University, Kazakhstan 5) Abzal Kyzyrkanov, L. N. Gumilyov Eurasian National University, Kazakhstan 6) Adil Maidanov, L. N. Gumilyov Eurasian National University, Kazakhstan People Counting System Using OpenCV Algorithms and Edge Computing for Safety Management
ID 58	1) Andrii Kasianchuk, Kyiv National University of Construction and Architecture, Ukraine 2) Honcharenko Yevhenii, Kyiv National University of Construction and Architecture, Ukraine 3) Popovych Nataliia, Kyiv National University of Construction and Architecture, Ukraine 4) Nechyporuk Roman, Kyiv National University of Construction and Architecture, Ukraine 5) Nechyporuk Yuliia, Kyiv National University of Construction and Architecture, Ukraine The future of artificial intelligence, computer vision, and machine learning and its potential to shape the way we live and interact with technology
16:00	Coffee break
16:20 18:00	SECTION 3. Emerging Trends and Technologies in IT Application

ID 60	<p>1) Otar Elmira, L. N. Gumilyov Eurasian National University, Kazakhstan</p> <p>2) Burbayeva Perizat. L. N. Gumilyov Eurasian National University, Kazakhstan</p> <p>Social Network Analysis of Smart Cities Stakeholders' involvement in Policies Development</p>
ID 62	<p>1) Ihor Berezutskyi. Kyiv National University of Construction and Architecture, Ukraine</p> <p>2) Svitlana Tsiutsiura. Kyiv National University of Construction and Architecture, Ukraine</p> <p>3) Ihor Rusan, Kyiv National University of Construction and Architecture, Ukraine</p> <p>4) Illia Sachenko, Kyiv National University of Construction and Architecture, Ukraine</p> <p>5) Serhii Danylyshyn, Kyiv National University of Construction and Architecture, Ukraine</p> <p>Disadvantages of Using Scrum Model in IT Projects</p>
ID 75	<p>1) Nazerke Baisholan, Al-Farabi Kazakh National University, Kazakhstan</p> <p>2) Sergiy Gnatyuk, National Aviation University, Ukraine</p> <p>3) Karlygash Baisholanova, Al-Farabi Kazakh National University, Kazakhstan</p> <p>4) Kazila Kubayev, Al-Farabi Kazakh National University, Kazakhstan</p> <p>Credit Card Fraud Detection on a Designed Dataset Using Machine Learning Algorithms</p>
ID 95	<p>1) Dnislam Urazayev, Nazarbayev University, Astana, Kazakhstan</p> <p>2) Aida Eduard, Nazarbayev University, Astana, Kazakhstan</p> <p>3) Muhammad Ahsan, Nazarbayev University, Astana, Kazakhstan</p> <p>4) Dimitrios Zorbas, Nazarbayev University, Astana, Kazakhstan</p> <p>Indoor Performance Evaluation of ESP-NOW</p>
ID 99	<p>1) Kateryna Lavrukhina, Kyiv National University of Construction and Architecture, Ukraine</p> <p>2) Viktoriya Tytok, Kyiv National University of Construction and Architecture, Ukraine</p> <p>3) Shpakova Hanna, Kyiv National University of Construction and Architecture, Ukraine</p> <p>4) Ivanova Tetiana, Kyiv National University of Construction and Architecture, Ukraine</p> <p>5) Shevchuk Olena, Kyiv National University of Construction and Architecture, Ukraine</p> <p>6) Andrii Biloshchytskyi, Astana IT University, Kazakhstan</p> <p>Innovative communication technologies as a factor in the development of the post-war economy of Ukraine</p>
ID 108	<p>1) Serhii Dolhopolov, Kyiv National University of Construction and Architecture, Kyiv, Ukraine</p> <p>2) Tetyana Honcharenko, Kyiv National University of Construction and Architecture, Kyiv, Ukraine</p> <p>3) Volodymyr Savenko, Kyiv National University of Construction and Architecture, Kyiv, Ukraine</p> <p>4) Olena Balina, Kyiv National University of Construction and Architecture, Kyiv, Ukraine</p> <p>5) Iryna Bezklubenko, Kyiv National University of Construction and Architecture, Kyiv, Ukraine</p> <p>6) Tamara Liashchenko, Kyiv National University of Construction and Architecture, Kyiv, Ukraine</p>

	Construction Site Modeling Objects Using Artificial Intelligence and BIM Technology: A Multi-stage Approach
ID 122	1) Adilet Kalabayev, Astana IT University, Kazakhstan 2) Aruna Adilkhanova, Astana IT University, Kazakhstan 3) Assel Nurguzhina, Astana IT University, Kazakhstan The Future of Retail Investing: Goal-Oriented Asset Allocation Platforms
ID 131	1) Aminat Khalamagamedova, Astana IT University, Kazakhstan 2) Sharbat Rakhman, Astana IT University, Kazakhstan 3) Adilet Toktybay, Astana IT University, Kazakhstan Effects of blockchain awareness on views regarding Web3: a study of IT students
ID 138	1) Oleksii Lopuha, Kyiv National University of Construction and Architecture Kyiv, Ukraine 2) Tsiutsiura Svitlana, Kyiv National University of Construction and Architecture Kyiv, Ukraine 3) Poplavskiy Oleksandr, Kyiv National University of Construction and Architecture Kyiv, Ukraine 4) Lysytsin Oleksii, Kyiv National University of Construction and Architecture Kyiv, Ukraine 5) Bondar Olena, Kyiv National University of Construction and Architecture Kyiv, Ukraine 6) Kruk Pavlo, Kyiv National University of Construction and Architecture Kyiv, Ukraine Test Design Methodology for Software Verification
ID 139	1) Volodymyr Levytskyi, Kyiv National University of Construction and Architecture, Ukraine 2) Tsiutsiura Mykola, Kyiv National University of Construction and Architecture, Ukraine 3) Yerukaiev Andrii, Kyiv National University of Construction and Architecture, Ukraine 4) Rusan Nadiia, Kyiv National University of Construction and Architecture, Ukraine 5) Li Tao, Kyiv National University of Construction and Architecture, Ukraine The Working Principle of Artificial Intelligence in Video Games
ID 232	1) Svitlana Terenchuk, Kyiv National University of Construction and Architecture, Ukraine 2) Ihor Bosenko, Kyiv National University of Construction and Architecture, Ukraine 3) Bohdan Volokh, Kyiv National University of Construction and Architecture, Ukraine 4) Oleksandr Molodid, Kyiv National University of Construction and Architecture, Ukraine 5) Vitalii Zapryvoda, Kyiv National University of Construction and Architecture, Ukraine 6) Roman Pasko, Kyiv Scientific Research Institute of Forensic Expertise of the Ministry of Justice of Ukraine Database Modeling for the Info-communication Support System for Rebuilding of Damaged Real Estate Objects
19:00	GALA DINNER
14:30	SECTION 4. Data Science and Advanced Analytics

16:00	
ID 2	<p>1) Turken Gulzat, Al-Farabi Kazakh National University, Kazakhstan 2) Naizabayeva Lyazzat, International IT University, Kazakhstan 3) Zukhra Muratovna Abdiakhmetova, Al-Farabi Kazakh National University, Kazakhstan 4) Maxatbek Satymbekov, Al-Farabi Kazakh National University, Kazakhstan</p> <p>Research and Development of Enterprise Data Warehouse based on SAP BW Modeling</p>
ID 10	<p>1) Turken Gulzat, Al-Farabi Kazakh National University, Kazakhstan 2) Van Pey, Al-Farabi Kazakh National University, Kazakhstan 3) Zhanerke Temirbekova, Al-Farabi Kazakh National University, Kazakhstan 4) Zukhra Abdiakhmetova, Al-Farabi Kazakh National University, Kazakhstan</p> <p>Research on Creating a Data Warehouse based on E-Commerce Logistics</p>
ID 21	<p>1) Mirat Kairatuly Medelbekov, International IT University, Kazakhstan 2) Marat Nurtas, International IT University, Kazakhstan</p> <p>Machine learning methods for phishing attacks: Survey</p>
ID 22	<p>1) Zhanna Ordabayeva, Satpayev University, Kazakhstan 2) Aiman Moldagulova, Satpayev University, Kazakhstan 3) Ibrahim Riza HALLAC, Alanya Alaaddin Keykubat University, Turkey</p> <p>Building a credit scoring model based on the type of target variable</p>
ID 83	<p>1) Marya Ryspayeva, Astana IT University, Kazakhstan</p> <p>Generative Adversarial Network as Data Balance and Augmentation Tool in Histopathology of Breast Cancer</p>
ID 85	<p>1) Chingiz Nurzhanov, Institute of Information and Computing Technologies, Kazakhstan 2) Lyazat Naizabayeva, International IT University, Kazakhstan 3) Talgat Mazakov, Institute of Information and Computing Technologies, Kazakhstan</p> <p>Digital Technology in Agriculture: An Approach to Modelling Crop Productivity on Trace Elements Contaminated Soil</p>
ID 90	<p>1) Bakhyt Alipova, International IT University, Kazakhstan</p> <p>Mass flow rate of the flow of steady-state viscous liquid from a small vessel into a vertical tube</p>
16:00	Coffee break
16:20 18:00	SECTION 4. Data Science and Advanced Analytics
ID 91	<p>1) Bauyrzhan Kairatuly, Al-Farabi Kazakh National University, Kazakhstan 2) Madina Mansurova, Al-Farabi Kazakh National University, Kazakhstan 3) Assel Ospan, Al-Farabi Kazakh National University, Kazakhstan</p> <p>Fine-tuning the Wav2vec2 model on Kazakh speech: A study on a limited corpus</p>
ID 97	<p>1) Yerkin Abdildin, Nazarbayev University, Kazakhstan 2) Dinmukhammedali Narbayev, Nazarbayev University, Kazakhstan 3) Dmitriy Viderman, Nazarbayev University, Kazakhstan</p> <p>Statistical Analysis of the Effect of Extended-Release Epidural Morphine versus Morphine Sulfate on Postoperative Medical Outcomes</p>
ID 102	<p>1) Altynay Shubekova, Astana IT University, Kazakhstan 2) Alina Beibitkyzy, Astana IT University, Kazakhstan</p>

	3) Aruzhan Makhazhanova, Astana IT University, Kazakhstan Application of Deep Learning in the Problem of Image Restoration
ID 106	1) Amalia Utamima, Institut Teknologi Sepuluh Nopember Surabaya, Indonesia 2) Alexander Alangghya, Institut Teknologi Sepuluh Nopember Surabaya, Indonesia 3) Tarisa Hakim, Institut Teknologi Sepuluh Nopember Surabaya, Indonesia 4) Aryageraldi Pajung, Institut Teknologi Sepuluh Nopember Surabaya, Indonesia Improving the Classification Result of Rice Varieties Using Gradient Boosting Methods
ID 119	1) Zhenis Otarbay, Nazarbayev University, Kazakhstan 2) Mery Orazaly, Astana IT University, Kazakhstan 3) Yerkegul Assaiyn, Astana IT University, Kazakhstan 4) Chagirov Sanzhar, Astana IT University, Kazakhstan 5) Sanzhar Pernebayev, Astana IT University, Kazakhstan 6) Tleuzhan Amir, Astana IT University, Kazakhstan Deep Transformer network and CNN model with about 200k parameters to classify P300 EEG signal
ID 125	1) Laura Karimova, International IT University, Kazakhstan 2) Sabina Rakhmetulayeva, International IT University, Kazakhstan Application of the algorithm for analyzing stock prices based on sentiment analysis
ID 143	1) Geetanjali Gutte, Bharati Vidyapeet's College of Engineering for Women, India 2) Rameez Shamalik, Bharati Vidyapeet's College of Engineering for Women, India 3) Bhavana Khaire, Bharati Vidyapeet's College of Engineering for Women, India 4) Srinivas Chippalkatti, Vishwakarma University, India 5) Vaishnavi Harne, Bharati Vidyapeet's College of Engineering for Women, India Detection of Glaucoma Eye Disease Using Deep Learning
19:00	GALA DINNER

5 MAY 2023 (Friday)

Section 1

<https://us06web.zoom.us/j/86355071725?pwd=ZVJXd2pmVXFfLzJlY2JPT0ZjRDNHZz09>

Section 2

<https://us06web.zoom.us/j/84266641361?pwd=Smk2Q1BpTUk4Mks4THhOUeIkck12Zz09>

Section 3

<https://us06web.zoom.us/j/85038656755?pwd=QkZxZUVrRUdzWmozZkE5M0wzZnJLQT09>

Section 4

<https://us06web.zoom.us/j/82343163187?pwd=N1R1ejBmVDRxVFpqWEwwOTINRDBqQT09>

9:30	Welcome coffee
10:00	Plenary presentations (Venue: Assembly Hall)
13:00	Lunch
14:30	Section presentations

<p>14:30 16:00</p>	<p>SECTION 1. Technology and Engineering Management</p>
<p>ID 181</p>	<p>1) Khalid Mehmood Cheema, Fatima Jinnah Women University, Pakistan 2) Muhammad Mudassar, The University of Lahore, Pakistan 3) Kashif Mehmood, The University of Lahore, Pakistan Intelligent Converter Control for Efficient Renewable Power Generator</p>
<p>ID 190</p>	<p>1) Dilnaz Abylkhassan, Astana IT University, Kazakhstan 2) Anel Malik, Astana IT University, Kazakhstan 3) Serik Igbayev, Astana IT University, Kazakhstan 4) Dina Zhumaldinova, Astana IT University, Kazakhstan Distortion of Information Value in IT Business Processes</p>
<p>ID 203</p>	<p>1) Karina Shaimergeronova, Nazarbayev University, Kazakhstan 2) Md.Hazrat Ali, Nazarbayev University, Kazakhstan 3) Essam Shehab, Nazarbayev University, Kazakhstan Implementation of Communication Middleware in Data Centric Digital Twin for Additive Manufacturing</p>
<p>ID 208</p>	<p>1) Gulmira Bazil, Almaty University of Power Engineering and Telecommunications named after Gumarbek Daukeyev, Kazakhstan 2) Yerbol Orakbayev, Almaty University of Power Engineering and Telecommunications named after Gumarbek Daukeyev, Kazakhstan 3) Bakhyt Mukhanov, Almaty University of Power Engineering and Telecommunications named after Gumarbek Daukeyev, Kazakhstan 4) Gulmira Iskakova, Almaty University of Power Engineering and Telecommunications named after Gumarbek Daukeyev, Comparative Analysis of Production Functions of Complex Variables of the Predictive Model of Resource Support for the Process of Heat Generation</p>
<p>ID 210</p>	<p>1) Essam Shehab, Nazarbayev University, Kazakhstan 2) Altynay Takisheva, Nazarbayev University, Kazakhstan 3) Fatima Nabdollayeva, Nazarbayev University, Kazakhstan 4) Serzhan Safin, Nazarbayev University, Kazakhstan 5) Sanim Pivovarova, Nazarbayev University, Kazakhstan Investigation of Implementing Solar Water Heating Systems in Kazakhstan</p>
<p>ID 211</p>	<p>1) Azim Dukenderov, Nazarbayev University, Kazakhstan 2) Almat Abilez, Nazarbayev University, Kazakhstan 3) Abdirakhman T. Onabek, Nazarbayev University, Kazakhstan 4) Alisher Aitbayev, Nazarbayev University, Kazakhstan 5) Yersultan Baimukhan, Nazarbayev University, Kazakhstan 6) Essam Shehab, Nazarbayev University, Kazakhstan Systems Engineering Approach for Designing Electrical Vehicle for Shell Eco-Marathon</p>
<p>ID 213</p>	<p>1) Iurii Chupryna, Kyiv National University of Construction and Architecture, Ukraine 2) Ruslan Tormosov, All-Ukrainian Charitable Organization “Municipal Development Institute”, Ukraine 3) Abay Aryn, Astana IT University, Kazakhstan 4) Horbach Maksym, Kyiv National University of Construction and Architecture, Ukraine</p>

	<p>5) Dmytro Prykhodko, Kyiv National University of Construction and Architecture, Ukraine</p> <p>6) Polzиков Miroslav, Kyiv National University of Construction and Architecture, Ukraine</p> <p>The updated tool for selecting projects for the target programs of sustainable energy development</p>
16:00	Coffee break
16:20 18:00	SECTION 1. Technology and Engineering Management
ID 215	<p>1) Diana Zhylysova, Al-Farabi Kazakh National University, Kazakhstan</p> <p>2) Gassyr Nazar, Al-Farabi Kazakh National University, Kazakhstan</p> <p>3) Assel Abdildaeva, Al-Farabi Kazakh National University, Kazakhstan</p> <p>Voice Recognition Methods and Modules for the Development of an Intelligent Virtual Consultant Integrated With WEB-ERP</p>
ID 216	<p>1) Nurkadem Kaldybayev, Al-Farabi Kazakh National University, Kazakhstan</p> <p>2) Nurgul Karymsakova, Al-Farabi Kazakh National University, Kazakhstan</p> <p>3) Madina Mansurova, Al-Farabi Kazakh National University, Kazakhstan</p> <p>Disposal of Solid Household Waste Using Computer Vision</p>
ID 220	<p>1) Svitlana Biloshchytska, Astana IT University, Kazakhstan</p> <p>2) Hristina Chuprina, Kyiv National University of Construction and Architecture, Ukraine</p> <p>3) Iryna Ivakhnenko, Kyiv National University of Construction and Architecture, Ukraine</p> <p>4) Dmytro Ryzhakov, Kyiv National University of Construction and Architecture, Ukraine</p> <p>5) Mykhaylo Churylo, Kyiv National University of Construction and Architecture, Ukraine</p> <p>Formalized Management of Changes at the Enterprise by Means of Fuzzy Logic</p>
ID 221	<p>1) Shafayet Mahamud, Daffodil International University, Bangladesh</p> <p>2) MD Saifur Rahman, Daffodil International University, Bangladesh</p> <p>3) Fouzia Faria Tura, Daffodil International University, Bangladesh</p> <p>Unlocking the Power of Blockchain for Safe and Secure Electronic Personal Information and Health Record Management with the Use of Cloud Storage</p>
ID 228	<p>1) Ainur Satpayeva, L.N. Gumilyov Eurasian National University, Kazakhstan</p> <p>2) Gulnara Mussina, L.N. Gumilyov Eurasian National University, Kazakhstan</p> <p>3) Shugla Mussabayeva, L.N. Gumilyov Eurasian National University, Kazakhstan</p> <p>4) Meruyert Tlegen, L.N. Gumilyov Eurasian National University, Kazakhstan</p> <p>5) Mamyrbek Beisenbi, L.N. Gumilyov Eurasian National University, Kazakhstan</p> <p>Control of Deterministic Chaotic Modes in Power Systems</p>
ID 233	<p>1) Abzal Kyzyrkanov, Astana IT University, Kazakhstan</p> <p>2) Sabyrzhan Atanov, L.N. Gumilyov Eurasian National University, Kazakhstan</p> <p>3) Shadi Aljawarneh, Jordan University of Science and Technology, Jordan</p> <p>4) Nazira Tursynova, L.N. Gumilyov Eurasian National University, Kazakhstan</p> <p>5) Samat Kassymkhanov, Astana IT University, Kazakhstan</p> <p>Algorithm of Coordination of Swarm of Autonomous Robots</p>
ID 240	<p>1) Aigerim Akizhanova, Astana IT University, Kazakhstan</p>

	<p>2) Innola Novykova, Institute of Innovative Education Kyiv National University of Construction and Architecture, Ukraine</p> <p>3) Olga Belenkova, Kyiv National University of Construction and Architecture, Ukraine</p> <p>4) Oleksii Kulikov, Kyiv National Commercial and Economic University, Ukraine</p> <p>5) Serhii Petrukha, Kyiv National University of Construction and Architecture, Ukraine</p> <p>6) Myroslava Zinchenko, Kyiv National University of Construction and Architecture, Ukraine</p> <p>Application of the updated project approach for institutionally oriented diversification of construction enterprises</p>
ID 243	<p>1) Lyazzat Issabekova , Al-Farabi Kazakh National University, Kazakhstan</p> <p>2) Irbulat Utepbergenov, Almaty University of Power Engineering and Telecommunications, Kazakhstan</p> <p>3) Shara Toibayeva, Almaty University of Power Engineering and Telecommunications, Kazakhstan</p> <p>4) Sholpan Sagyndykova, Almaty University of Power Engineering and Telecommunications, Kazakhstan</p> <p>5) Kaiyrbek Makulov, Caspian University of Technology and Engineering named after Sh.Yessenov, Kazakhstan</p> <p>Temperature and Humidity Control in the Baking Chamber Using Fuzzy Logic</p>
14:30 16:00	SECTION 2. IT in Education and Research
ID 132	<p>1) Oleksandr Mitsa, Uzhhorod National University, Ukraine</p> <p>2) Vasyi Sharkan, Uzhhorod National University, Ukraine</p> <p>3) Vitalii Maksymchuk, National University of Ostroh Academy, Ukraine</p> <p>4) Sabolch Varha, Uzhhorod National University, Ukraine</p> <p>5) Halyna Shkurko, Uzhhorod National University, Ukraine</p> <p>Ethnocultural, Educational and Scientific Potential of the Interactive Dialects Map</p>
ID 136	<p>1) Ruslan Omirgaliyev, Astana IT University, Kazakhstan</p> <p>2) Diyar Mukhidenov, Astana IT University, Kazakhstan</p> <p>3) Ayazhan Sydyk, Astana IT University, Kazakhstan</p> <p>Using video games as a tool in math education</p>
ID 140	<p>1) Tetyana Sergeyeva, National Technical University “Kharkiv Polytechnic Institute”, Ukraine</p> <p>2) Sergiy Bronin, Taras Shevchenko National University of Kyiv, Ukraine</p> <p>3) Tadej Glazar, University of Ljubljana, Slovenia</p> <p>4) Vid Degleria, University of Ljubljana, Slovenia</p> <p>Creating Digitized Tools for Supporting Multidisciplinary and Multi-Actor Solutions Based on Eco-Humanistic Model</p>
ID 145	<p>1) Irina Mukambaeva, International Academy of Management, Law, Finance and Business, Kyrgyzstan</p> <p>2) Nurbek Mukambaev, International Academy of Management, Law, Finance and Business, Kyrgyzstan</p> <p>3) Elena Kibets, Daniyarov Kyrgyz state medical institute, Kyrgyzstan</p> <p>4) Ermeka Lailieva, Balasagyn Kyrgyz National University, Kyrgyzstan</p> <p>5) Erkeaim Shambetova, IMF Resident Representative Office, Kyrgyzstan</p>

	6) Sergey Mikhailin, Daniyarov Kyrgyz state medical institute, Kyrgyzstan Factor Assessment of The Mortality in Kyrgyzstan through Data Analysis
ID 157	1) Marat Mustafin, Astana IT University, Kazakhstan An experimental assistant platform for teaching programming languages using a step-by-step approach
16:00	Coffee break
16:20 18:00	SECTION 2. IT in Education and Research
ID 169	1) Kateryna Kolesnikova, International IT University, Kazakhstan 2) Ardak Mukhamediyeva, International IT University, Kazakhstan 3) Kaisar Alpysbayev, International IT University, Kazakhstan 4) Oleksii Kolesniko, Taras Shevchenko National University of Kyiv, Ukraine Development of a cognitive model of the interaction of knowledge carriers in the educational environment
ID 179	1) Tolganay Maratova, Kazakh National Women's Teacher Training University, Kazakhstan 2) Bektas Bostanov, Kazakh National Women's Teacher Training University, Kazakhstan 3) Jaroslav Kultan, University of Economics in Bratislava, Slovakia 4) Darmanbek Nauryzbayev, Abai Kazakh National Pedagogical University, Kazakhstan 5) Aliya Ongarbayeva, Kazakh National Women's Teacher Training University, Kazakhstan 6) Zinagul Syranchieva, Kazakh National Women's Teacher Training University, Kazakhstan About the Need to Attract Girls to Education Using the Stem Methodology in the Informatics Educational Program
ID 202	1) Sergiy Bushuyev, Kyiv National University of Construction and Architecture, Ukraine 2) Svetlana Murzabekova, Public Fund "Nursultan Nazarbayev Education Fund, Kazakhstan 3) Andrii Biloshchytskyi, Astana IT University, Kazakhstan, Kyiv National University of Construction and Architecture, Ukraine 4) Maira Khusainova, Public Fund "Nursultan Nazarbayev Education Fund, Kazakhstan 5) Sergiy Sukach, Kyiv National University of Construction and Architecture, Ukraine Inspirational Development of Education Establishment. Astana IT University Case
ID 209	1) Aasso Ziro, Kazakh-British Technical University, Kazakhstan 2) Shara Toibayeva, Almaty University of Power Engineering and Telecommunications named after G. Daukeev, Kazakhstan 3) Sergiy Gnatyuk, National Aviation University, Ukraine 4) Azamat Imanbayev, Kazakh-British Technical University, Al-Farabi Kazakh National University, Kazakhstan Research of the information security audit system in organizations
ID 218	1) Andrii Biloshchytskyi, Astana IT University, Kazakhstan, Kyiv National University of Construction and Architecture, Ukraine 2) Serik Omirbayev, Astana IT University, Kazakhstan 3) Aidos Mukhatayev, Bologna process and academic mobility center, Kazakhstan

	<p>4) Svitlana Biloshchytska, Astana IT University, Kazakhstan, Kyiv National University of Construction and Architecture, Ukraine</p> <p>5) Sapar Toxanov, Astana IT University, Kazakhstan</p> <p>6) Adil Faizullin, Astana IT University, Kazakhstan</p> <p>IT-project administration tools for creating information and training platforms</p>
ID 222	<p>1) Nurkhat Ibadildin, Astana IT University, Kazakhstan</p> <p>2) Sholpan Borashova, Astana IT University, Kazakhstan</p> <p>3) Assel Nurguzhina, Astana IT University, Kazakhstan</p> <p>4) Dina Zhumaldinova, Astana IT University, Kazakhstan</p> <p>Analysis of technological entrepreneurship module at Astana IT University and other Kazakhstani higher educational institutions</p>
14:30 16:00	SECTION 3. Emerging Trends and Technologies in IT Application
ID 152	<p>1) Adeliya Bekturova, Astana IT University, Kazakhstan</p> <p>2) Kalamkas Kursabayeva, Astana IT University, Kazakhstan</p> <p>3) Zhanar Almaty, Astana IT University, Kazakhstan</p> <p>4) Sanzhar Kusdavletov, Astana IT University, Kazakhstan</p> <p>5) Balzhan Azibek, Astana IT University, Kazakhstan</p> <p>Defender-Attacker Model Based Secure Software Development Lifecycle for Common Web Vulnerabilities</p>
ID 155	<p>1) Utepbergenov Irbulat, Almaty University of Power Engineering and Telecommunications named after Gumarbek Daukeyev, Kazakhstan</p> <p>2) Vladimir Yavorskiy, Abylka Saginov Karaganda Technical University, Kazakhstan</p> <p>3) Yelena Klyuyeva, Abylka Saginov Karaganda Technical University, Kazakhstan</p> <p>Using Big Data Processing for Forming the Information Model of the Mining and Geological Area</p>
ID 161	<p>1) Kataieva Yevheniia, Slovak University of Technology in Bratislava, Slovakia</p> <p>2) Eduard Znava, Slovak University of Technology in Bratislava, Slovakia</p> <p>Construction of Optimal Geographical Routes Using User-defined Coordinates Based on Existing Algorithms</p>
ID 162	<p>1) Volodymyr Rashkivskiy, Kyiv National University of Construction and Architecture, Ukraine</p> <p>2) Roman Demianenko, Kyiv National University of Construction and Architecture, Ukraine</p> <p>Study of the adequacy of the BIM model in the survey of damaged building objects</p>
ID 172	<p>1) Abdullah Muslim, University of Applied Sciences and Arts, Germany</p> <p>2) Falko Schmid, Digital Health Lab Düsseldorf, Germany</p> <p>3) Stephan Recker, University of Applied Sciences and Arts, Germany</p> <p>Latency measurement approach for black box components in edge computing environments</p>
ID 178	<p>1) Nursultan Jyeniskhan, Nazarbayev University, Kazakhstan</p> <p>2) Karina Shaimergernova, Nazarbayev University, Kazakhstan</p> <p>3) Md. Hazrat Ali, Nazarbayev University, Kazakhstan</p> <p>4) Essam Shehab, Nazarbayev University, Kazakhstan</p> <p>Digital Twin for Additive Manufacturing: Challenges and Future Research Direction</p>

ID 180	1) Algys Saltanat, Astana IT University Astana, Kazakhstan 2) Xiong Wang, Tsinghua University Beijing, China A robust asymmetric mixture model for image segmentation
ID 188	1) Algys Saltanat, Astana IT University Astana, Kazakhstan Throughput Optimization for Mobile Nodes with Wireless Energy Harvesting in Cellular Networks
ID 193	1) Alexandr Neftissov, Astana IT University, Kazakhstan 2) Assiya Sarinova, Astana IT University, Kazakhstan 3) Ilyas Kazambaev, Astana IT University, Kazakhstan 4) Lalita Kirichenko, Astana IT University, Kazakhstan 5) Sergiy Bronin, Taras Shevchenko National University of Kyiv, Ukraine Development of an intelligent monitoring system based on the use of fiber-optic sensors and deep learning
ID 244	1) Tatyana Ten, Karaganda University of Kazpotrebsoyuz, Kazakhstan 2) Leonid Smirnov, Karaganda University of Kazpotrebsoyuz, Kazakhstan 3) Vladimir Drozd, Karaganda University of Kazpotrebsoyuz, Kazakhstan 4) Bakhyt Spanova, Karaganda Buketov University, Kazakhstan "Green Economy" of the Republic of Kazakhstan
16:00	Coffee break
16:20 18:00	SECTION 3. Emerging Trends and Technologies in IT Application
ID 194	1) Talgat Baimaganbetov, Astana IT University, Kazakhstan 2) Mariia Sodnomova, Astana IT University, Kazakhstan 3) Elvira Aitmukhanbetova, Astana IT University, Kazakhstan Assessing the risk of currency digitalization in Kazakhstan
ID 195	1) Alexandr Neftissov, Astana IT University, Kazakhstan 2) Assiya Sarinova, Astana IT University, Kazakhstan 3) Ilyas Kazambaev, Astana IT University, Kazakhstan 4) Lalita Kirichenko, Astana IT University, Kazakhstan 5) Rostyslav Lisnevskiy, Taras Shevchenko National University of Kyiv, Ukraine 6) Leila Rzayeva, Astana IT University, Astana, Kazakhstan Development of the Smart Office Concept
ID 197	1) Aigerim Mansurova, Astana IT University, Kazakhstan 2) Talgat Baimaganbetov, Astana IT University, Kazakhstan 3) Aliya Nugumanova, Astana IT University, Kazakhstan Topic modeling for recent newspaper publications on blockchain technology in Kazakhstan
ID 198	1) Manat Nursultan, Astana IT University, Kazakhstan 2) Daniyar Dauletiya, Astana IT University, Kazakhstan Development of a Real-Time Object Tracking System using Computer Vision and Pan-Tilt Control
ID 199	1) Burbayeva Perizat, L. N. Gumilyov Eurasian National University, Kazakhstan 2) Otar Elmira, L. N. Gumilyov Eurasian National University, Kazakhstan Transformation In,Of,By a citizen of Smart City
ID 201	1) Siti Elda Hiererra, Bina Nusantara University, Jakarta, Indonesia 2) Deny Jollyta, Institut Bisnis dan Teknologi, Pelita, Indonesia 3) Gusrianty Gusrianty, Institut Bisnis dan Teknologi, Pelita, Indonesia 4) Dwi Oktarina, Institut Bisnis dan Teknologi, Pelita, Indonesia 5) Heri Pracoyo, Bina Nusantara University, Jakarta, Indonesia

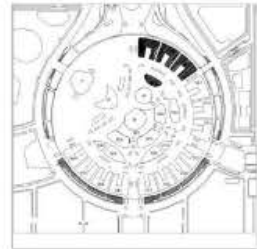
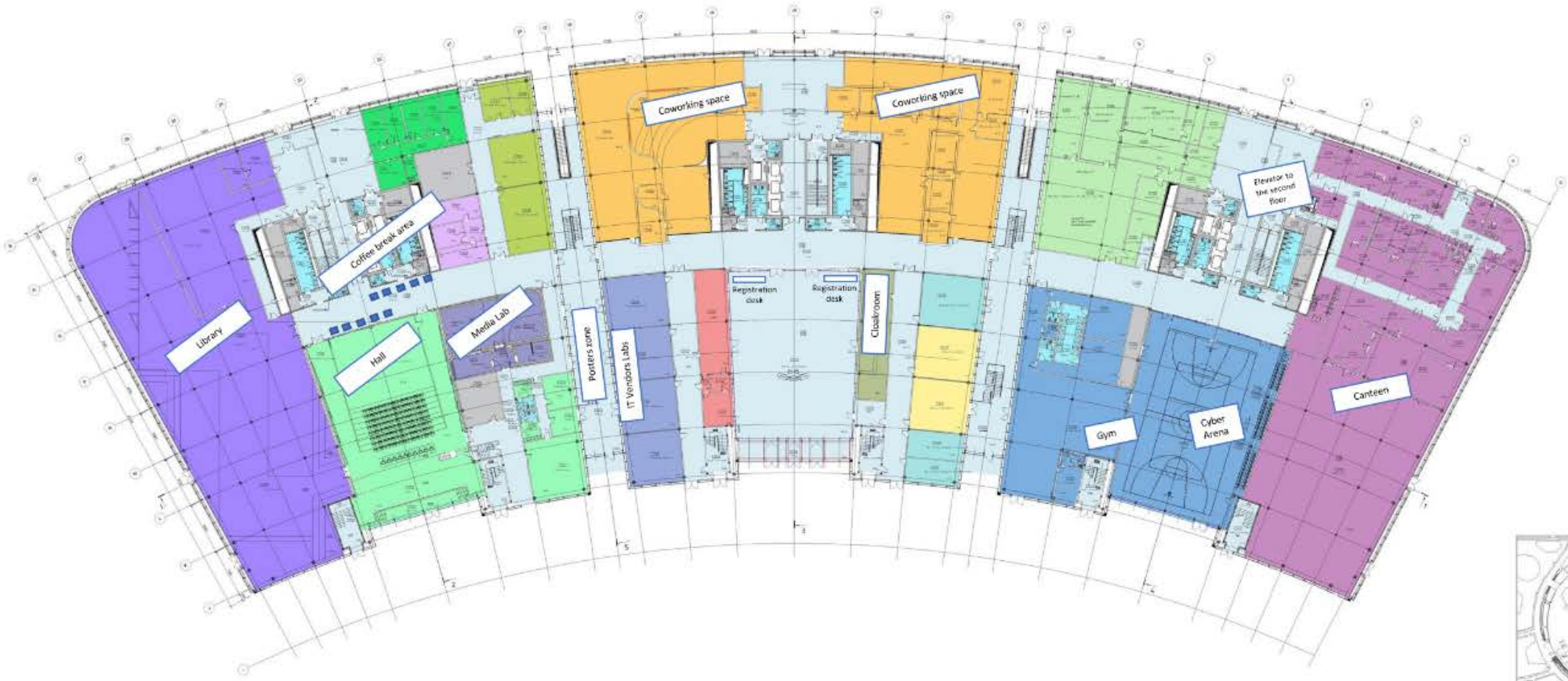
	6) Inayatulloh, Bina Nusantara University, Jakarta, Indonesia Blockchain Model Adoption to Improve Transaction Security in The Insurance Industry
ID 205	1) Yussupova Assel, Toraighyrov University, Kazakhstan 2) Potapenko Alexandra, Toraighyrov University, Kazakhstan 3) Alexandr Neftissov, Astana IT University, Kazakhstan 4) Urazalimova Dariya Sansyzbayevna, Toraighyrov University, Kazakhstan 5) Oleh Serbin, Yaroslav Mudryi National Library of Ukraine, Ukraine Analysis of the EMF parameters of the stator winding in the run-down mode for diagnosing faults in an induction motor
ID 207	1) Yeong Hyeon, Sungkyunkwan University, Korea 2) Myung Jin Kim, IoT Solution Business Group SK Planet Co., Ltd., Korea 3) Won Seok Park, IoT Solution Business Group SK Planet Co., Ltd., Korea 4) Juneho Yi, Sungkyunkwan University, Korea Recycling for Recycling: RoI Cropping by Recycling a Pre-trained Attention Mechanism for Accurate Classification of Recyclables
ID 223	1) Aigul Adamova, Astana IT University, Kazakhstan 2) Tamara Zhukabaeva, L.N. Gumilyov Eurasian National University, Kazakhstan 3) Yerik Mardenov, L.N. Gumilyov Eurasian National University, Kazakhstan Machine Learning in Action: An Analysis of its Application for Fault Detection in Wireless Sensor Networks
ID 239	1) Prasetya Cahya Saputra, BINUS University, Jakarta, Indonesia 2) Harjanto Prabowo, BINUS University, Jakarta, Indonesia 3) Arief Ramadhan, Telkom University, Bandung, Indonesia 4) Evaristus Didik Madyatmadja, BINUS University, Jakarta, Indonesia Trends of Digital Transformation in the Property Management Industry: A Systematic Literature Review
ID 242	1) Talgar Bayan, University of Manchester, Manchester, UK 2) Richard Banach, University of Manchester, Manchester, UK Exploring the Privacy Concerns in Permissionless Blockchain Networks and Potential Solutions
14:30 16:00	SECTION 4. Data Science and Advanced Analytics
ID 151	1) Vladyslav Kotsovsky, Uzhhorod National University, Ukraine 2) Vitalii Lazoryshynets, Uzhhorod National University, Ukraine 3-Layer Neural Network Classifier with the Heterogeneous Hidden Layers
ID 153	1) Ruslan Omirgaliyev, Astana IT University, Kazakhstan 2) Nurkhat Zhakiyev, Astana IT University, Kazakhstan 3) Naziya Baisakalova, Astana IT University, Kazakhstan 4) Samat Tankeyev, Astana IT University, Kazakhstan System for Water and electricity Consumption Prediction in Smart Cities by ML: Case Study for Astana City
ID 160	1) Assel Smayyl, Astana IT University, Kazakhstan 2) Eldiyar Zhantileuov, Astana IT University, Kazakhstan 3) Aigerim Aibatbek, Astana IT University, Kazakhstan 4) Samat Kassymkhanov, Astana IT University, Kazakhstan A Case Study of Machine Learning Algorithm Comparisons for Predicting Apartment Prices in Astana

ID 176	1) Mukhit Baimakhanbetov, International IT University, Kazakhstan Determination of the optimal number of topics in the LDA model when working with large arrays of text data
ID 189	1) Salima Abdrashova, International IT University, Kazakhstan 2) Dinara Kozhamzharova, International IT University, Kazakhstan The of use data science techniques in business
ID 200	1) Yermek Alimzhanov, Astana IT University, Kazakhstan 2) Magzhan Shymbayev, Astana IT University, Kazakhstan Extractive Question Answering for Kazakh Language
16:00	Coffee break
16:20 18:00	SECTION 4. Data Science and Advanced Analytics
ID 204	1) Ihor Mych, Uzhhorod National University, Ukraine 2) Volodymyr Nikolenko, Uzhhorod National University, Ukraine 3) Olena Vartsaba, Uzhhorod National University, Ukraine 4) Alexander Kuchansky, Taras Shevchenko National University of Kyiv, Ukraine Complete Description of Adjacent Classes of Boolean Algebras by Basis Equivalence
ID 217	1) Didar Yedilkhan, Astana IT University, Kazakhstan 2) Assel Mukasheva, Almaty University of Power Engineering and Telecommunications, Kazakhstan 3) Dariya Bissengaliyeva, Astana IT University, Kazakhstan 4) Yerulan Suynullayev, Almaty University of Power Engineering and Telecommunications, Kazakhstan Performance Analysis of Scaling NoSQL vs SQL: A Comparative Study of MongoDB, Cassandra, and PostgreSQL
ID 227	1) Marat Baideldinov, L.N. Gumilyov Eurasian National University, Kazakhstan 2) Muratbek Ussebaev, S.Seifullin Kazakh Agro-technical University, Kazakhstan 3) Zhanna Mukanova Turan University, Kazakhstan Implementation of a physically uncloneable function on an FPGA
ID 229	1) Javed Hossain, City University, Bangladesh 2) Md. Touhidul Islam, East West University, Bangladesh 3) Md. Taufiqul Haque Khan Tusar, City University, Bangladesh Streamlining Brain Tumor Classification with Custom Transfer Learning in MRI Images
ID 230	1) Adil Moidanov, L. N. Gumilyov Eurasian National University, Kazakhstan 2) Huseyin Canbolat, Ankara Yıldırım Beyazıt University, Turkey 3) Sabyrzhan Atanov, L. N. Gumilyov Eurasian National University, Kazakhstan Optimizing GPS and gyroscope data for military missions
ID 236	1) Myroslava G Gladka, Taras Shevchenko National University of Kyiv, Ukraine 2) Alexander Kuchansky, Taras Shevchenko National University of Kyiv, Ukraine 3) Mykola Kostikov, Taras Shevchenko National University of Kyiv, Ukraine 4) Rostyslav Lisnevskiy, Taras Shevchenko National University of Kyiv, Ukraine Method of allocation of labor resources for IT project based on expert assessments of Delphi

**Excursion program at the University for participants of
2023 IEEE International Conference on
Smart Information Systems and Technologies
4 May 12:30 – 13:00**

№	Venue	Time
1	Visit to the Scientific Library	4 min
2	Visit to the Media Laboratory	4 min
3	Visit to Coworking Space	4 min
4	Visit to the gym, Cyber Arena	4 min
5	Visit to scientific-innovation centers: Smart City, Industry 4.0, Big Data and Blockchain Technologies	10 min
6	Visit to FabLab	4 min

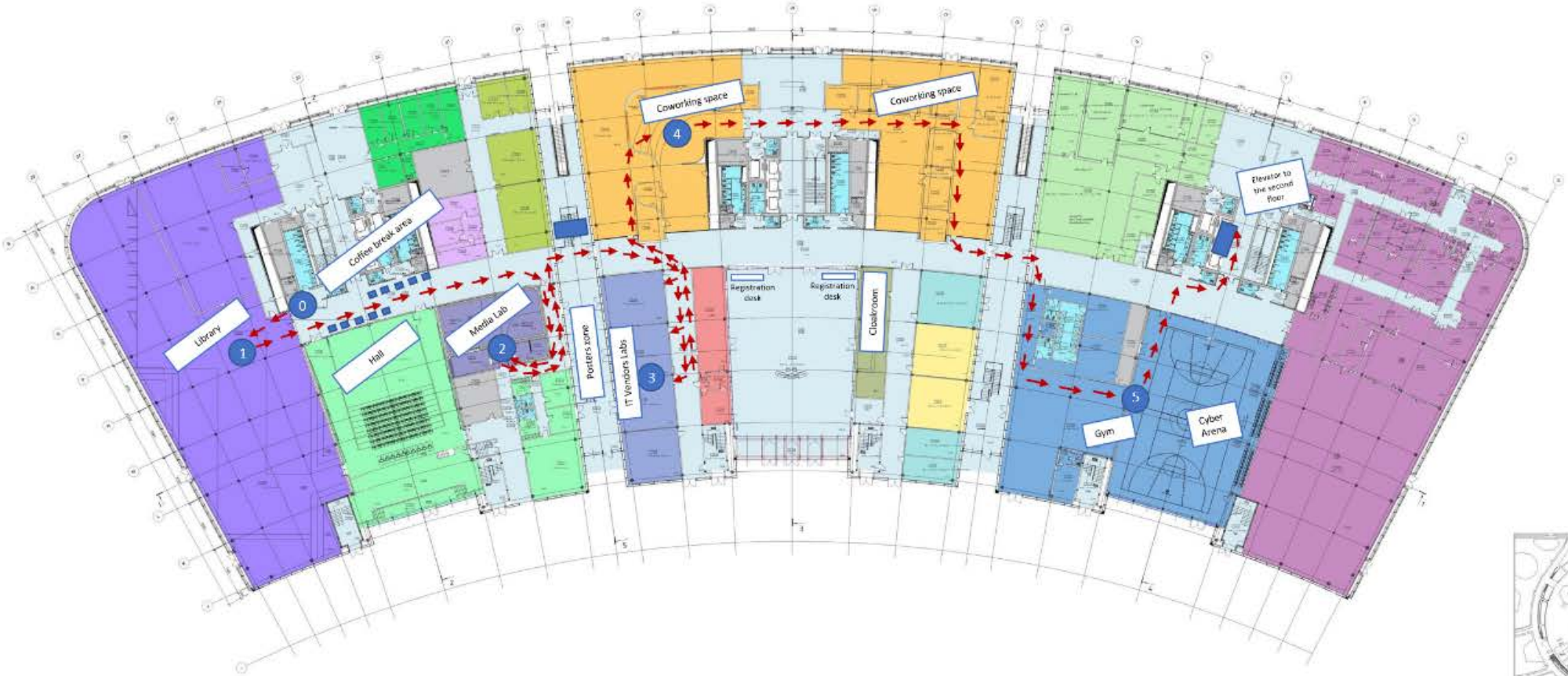
План-схема 1-этажа



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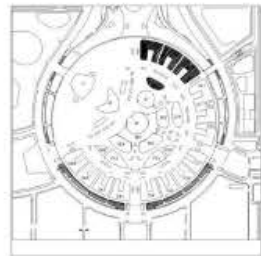
План-схема 1-этажа



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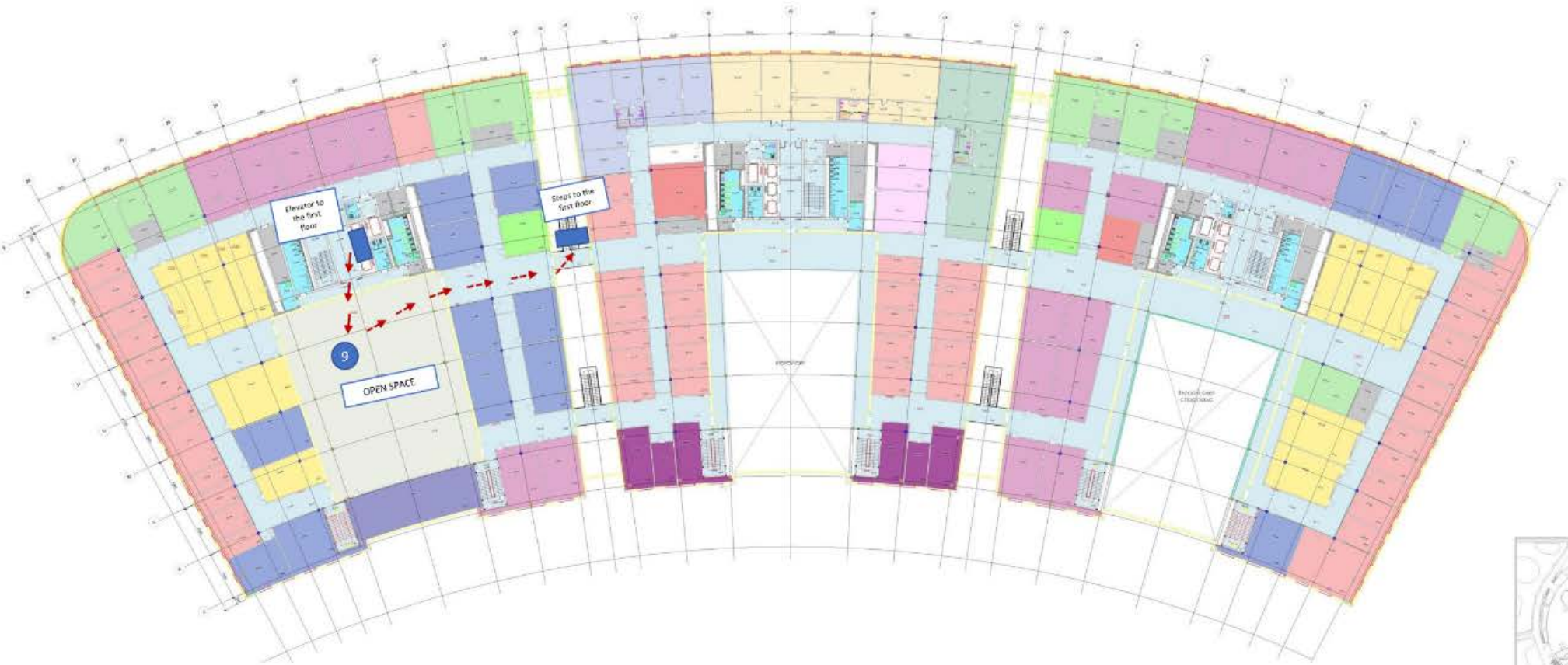
План-схема 2-этажа



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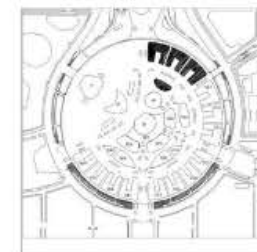
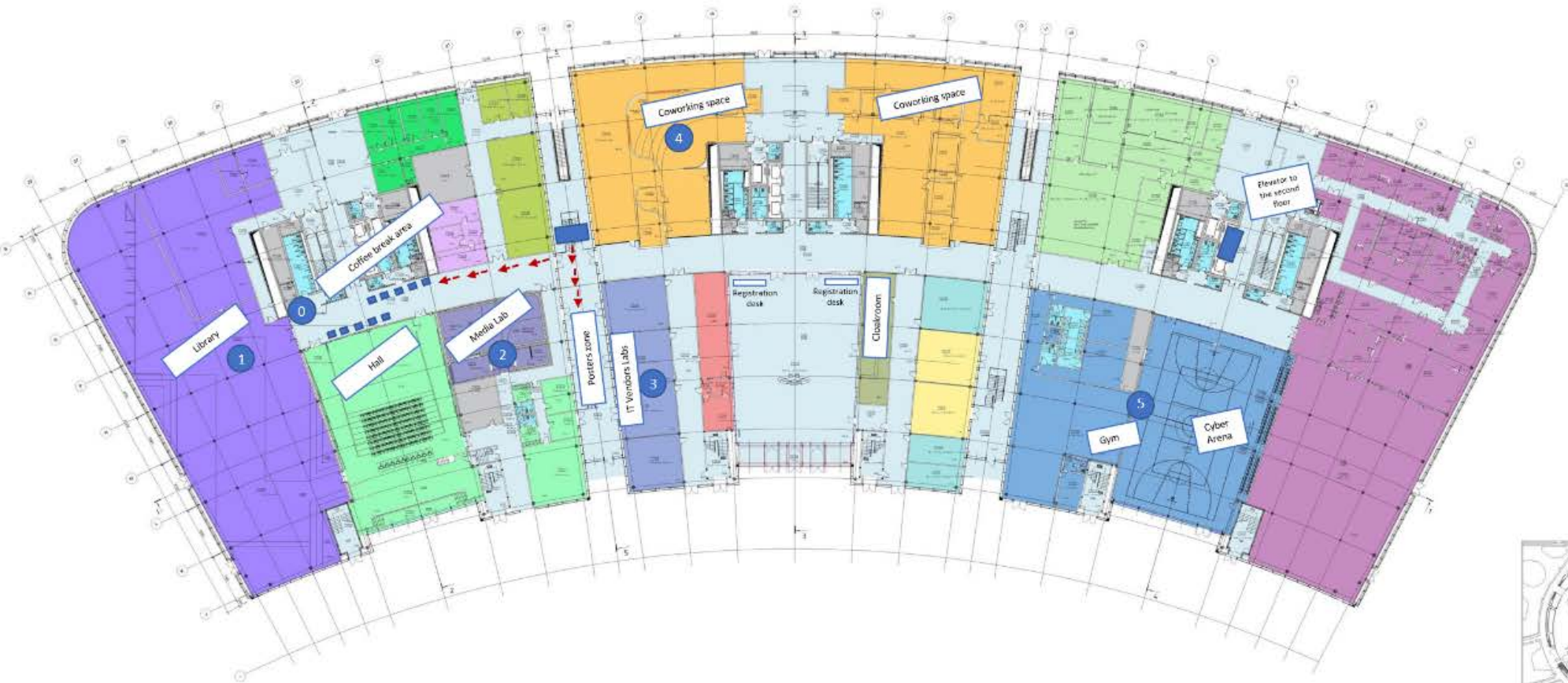
План-схема 3-этажа







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