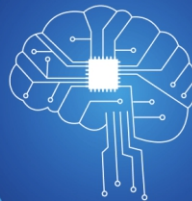# SIST 2022

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

Venue: AITU Assembly Hall
Meeting ID: 991 5752 8669
Passcode: 589971

10:00	**Welcome speech** 1. *Askhat Aimagambetov*, Minister of Education and Science of the Republic of Kazakhstan - "Digitalization of education" (TBC) 2. *Bagdat Musin*, Minister of Digital Development, Innovation and Aerospace Industry of the Republic of Kazakhstan - "Digitalization of education" (TBC) 3. *Altay Kulginov,* Akim of Nur-Sultan (TBC) 4. *Galymkair Mutanov,* 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. *Askar Nurpeisov,* Public Foundation "Nursultan Nazarbayev Education Fund" (TBC) 6. *Darkhan Akhmed-Zaki* - Professor, Doctor of Technical Sciences, Rector of Astana IT University, Kazakhstan
	Plenary session
10:30	*Botagoz Kasabek, Head of the Department of Digitalization and Public Services of the Akimat of Nur-Sultan (Kazakhstan)*
10:50	*Ravil Mukhamediev, doctor of engineering sciences, professor, chief researcher of IIHT MES RK, (Kazakhstan)* «From classical machine learning to deep neural networks»
11:10	*Sergey Bushuyev, Doctor of Technical Sciences, Professor, Kyiv National University of Construction and Architecture (Ukraine)* «Development of Digital Intelligence Society on the Basis of Global Trends»
1 1:30	*Andrii Biloshchytskyi, Doctor of Technical Sciences, Professor, Vice-Rector for Science and Innovation of Astana IT University (Kazakhstan)* "Scientific research activity of Astana IT University"
1 1:50	*Nurken Mussabayev, Vice-Rector of Digitalization, Kenzhegali Sagadiyev University of International Business (Kazakhstan)* «Digital Transformation of the University of International Business»
12:10	*Danil Lebedev, 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	*Essam Shehab,* Professor, Head of Mechanical and Aerospace Engineering Department, Nazarbayev University, (Kazakhstan) "Industrial Digitalization Applications in World-Class Aerospace Companies"
12:50	*Andreas Pester, Doctor of Technical Sciences, Professor,* (Austria), *Sergiy Bronin, Ph.D., associate professor, Taras Shevchenko National University of Kyiv,* (Ukraine) "dComFra: Digital competence framework for Ukrainian teachers and other citizens"
13:10	*Carsten Wolff, 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**

	2) Liudmyla Tereikovska, Ukraine, Kyiv National University of Construction and Architecture 3) Olena Kryvoruchko, Ukraine, Kyiv National University of Trade and Economics 4) Oleh Tereikovskyi, 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) Ruvin 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 Tereikovskyi, Ukraine, National Technical University of Ukraine 3) Igor Sikorsky, Ukraine, Kyiv Polytchnic 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 Arynbek, 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**

	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

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

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