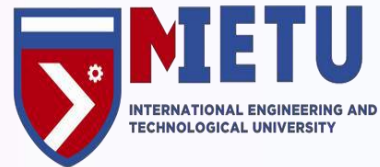


NATIONAL ENGINEERING ACADEMY OF THE
REPUBLIC OF KAZAKHSTAN



**"Artificial Intelligence in Engineering and
Technology Education"
(AIETE - 2024),
International scientific and educational conference
PROGRAM**

February 28-29, 2024

Almaty, Kazakhstan

PROGRAM COMMITTEE

CO-CHAIRS:

1. Zhumagulov Bakytzhan, President of the National Engineering Academy of the Republic of Kazakhstan, Academician of the National Academy of Sciences of the Republic of Kazakhstan, Doctor of Technical Sciences, Professor, Kazakhstan
2. Ahmed-Zaki Darkhan, Vice-Minister of Science and Higher Education of the Republic of Kazakhstan, Doctor of Technical Sciences, Professor, Kazakhstan

ЧЛЕНЫ:

1. Gulnar Sarsenbekova, Rector of the International Engineering Technological University, Candidate of Philosophy, Associate Professor, Kazakhstan
2. Khikmetov Askar, Rector of the International University of Information Technologies, Candidate of Physical and Mathematical Sciences, Corresponding Member of National Engineering Academy of the Republic of Kazakhstan, Kazakhstan
3. Tuleshov Amandyk, vice-president of National Engineering Academy of the Republic of Kazakhstan, doctor of physical and mathematical sciences, professor, Kazakhstan
4. Denisova Natalya, director of the department of information technologies, vice-rector for informatization of East Kazakhstan Technical University named after D. Serikbaeva, Kazakhstan
5. Abdibekov Ualikhan, academician of National Engineering Academy of the Republic of Kazakhstan, doctor of physical and mathematical sciences, professor, dean of the Faculty of Mechanics and Mathematics, Kazakh National University named after al-Farabi, Kazakhstan
6. Turar Olzhas, PhD, associate professor, Dean of the Faculty of Information Technologies, Kazakh National University named after al-Farabi, Kazakhstan
7. Ibraymov Margulan, PhD, associate professor, Director of the Department of Science and Innovation, Kazakh National University named after al-Farabi, Kazakhstan
8. Kaltaev Aidarkhan, Academician of National Engineering Academy of the Republic of Kazakhstan, Doctor of Physical and Mathematical Sciences, Professor of Kazakh National Technical University named after Satpaev, Kazakhstan
9. Matthias Meinke, Professor, Rhine-Westphalia Technical University Aachen, Germany
10. Mohanraj Murugesan, professor at the Department of Engineering Mechanics, Hindustan College of Engineering and Technology, India
11. Kabanihin Sergey, Corresponding Member of the Russian Academy of Sciences, Doctor of Physical and Mathematical Sciences, Professor, Institute of Computational Mathematics and Mathematical Geophysics of the Siberian Branch of the Russian Academy of Sciences, Russia



12. Helvachi Mustafa, PhD, Institute of Informatics at Istanbul Technical University, Turkey
13. Veliyev Eldar, PhD, Professor, Institute of Informatics at Istanbul Technical University, Turkey
14. Kuleshov Alexey, Doctor of physical and mathematical sciences, researcher, Institute of radiophysics and electronics named after A.Usikov of the National Academy of Sciences of Ukraine
15. Wojcik Waldemar, Doctor of Technical Sciences, Professor at the Technical University of Lublin, Poland
16. Kisala Piotr, PhD, professor, Technical University of Lublin, Poland
17. Tusupov Jamalbek, Doctor of Physical and Mathematical Sciences, Professor, Eurasian National University named after L.N. Gumilev, Kazakhstan
18. Bektemesov Maktagali, corresponding member of National Engineering Academy of the Republic of Kazakhstan, doctor of physical and mathematical sciences, professor, Kazakh National Pedagogical University named after Abaya, Kazakhstan
19. Rysbayuly Bolatbek, Professor, International University of Information Technologies, Kazakhstan
20. Urmashiev Baydaulet, acting Professor, Candidate of Physical and Mathematical Sciences, Al-Farabi Kazakh National University, Kazakhstan
21. Mansurova Madina, Candidate of Physical and Mathematical Sciences, Associate Professor, Al-Farabi Kazakh National University, Kazakhstan
22. Mausumbekova Saule, Candidate of Physical and Mathematical Sciences, Associate Professor Al-Farabi Kazakh National University, Kazakhstan
23. Shynar Musiraliyeva, Candidate of Physical and Mathematical Sciences, Associate Professor, Al-Farabi Kazakh National University, Kazakhstan
24. Madina Tungatarova, PhD, Associate Professor, Satpayev Kazakh National Technical University, Kazakhstan
25. Belyaev Erzhan, PhD, Associate Professor, Al-Farabi Kazakh National University, Kazakhstan
26. Timur Imankulov, PhD, Associate Professor Al-Farabi Kazakh National University, Kazakhstan
27. Doszhan Nursultan, Deputy Dean for Scientific and Innovation Work and International Relations, PhD, Al-Farabi Kazakh National University, Kazakhstan
28. Baygereev Dosan, PhD, Associate Professor, East Kazakhstan University named after Sarsen Amanzholov
29. Temirbekov Almas, PhD, Associate Professor, Al-Farabi Kazakh National University, Kazakhstan
30. Bektemesov Zholaman, PhD, Associate Professor, Al-Farabi Kazakh National University, Kazakhstan
31. Daribaev Beimbet, PhD, Associate Professor Al-Farabi Kazakh National University, Kazakhstan
32. Erkebulan Nalibaev, PhD, senior lecturer, Al-Farabi Kazakh National University, Kazakhstan



33. Medetov Bekbolat, PhD, associate professor S. Seifullin Kazakh Agrotechnical Research University
34. Zhetpisbaeva Ainur, PhD, associate professor S. Seifullin Kazakh Agrotechnical Research University
35. Chezhimbaeva Katipa, Candidate of Technical Sciences, Associate Professor, Almaty University of Energy and Communications named after G. Daukeev
36. Jarykbassov Daniyar, PhD, Chief Engineer of Distribution Zone Otegen Batyr, Corporate «Alatau Zharyk Companyasy»



ORGANISING COMMITTEE

CHAIRPERSONS:

1. Temirbekov Nurlan, Vice-President of the National Engineering Academy of the Republic of Kazakhstan, academician of the National Engineering Academy of the Republic of Kazakhstan, corresponding member of the National Academy of Science of the Republic of Kazakhstan, professor, Kazakhstan
2. Zhakebaev Dauren, President of the International Engineering Technological University, corresponding member of National Engineering Academy of the Republic of Kazakhstan, professor, Kazakhstan

MEMBERS:

1. Imangaliev Ernar, chief scientific secretary of the National Engineering Academy of the Republic of Kazakhstan, candidate of physical and mathematical sciences, corresponding member of the National Engineering Academy of the Republic of Kazakhstan, Kazakhstan
2. Karuna Oksana, Vice-Rector for Strategic Development, Science and International Relations, PhD, Associate Professor, International Engineering Technological University, Kazakhstan
3. Akpanbetov Darkhan, Vice-Rector for Academic Affairs and Industrial Practice, Candidate of Technical Sciences, Associate Professor, International Engineering Technological University, Kazakhstan
4. Tatibekov Bauyrzhan, Director of the Department of Scientific Work and International Cooperation, Candidate of Economic Sciences, Associate Professor, International Engineering Technological University, Kazakhstan
5. Magzhan Sarsembayev, Head of the Department of Software Engineering, International Engineering Technological University, Kazakhstan
6. Akmaral Tolegenova, PhD, Head of the Department of "Smart Technologies in Engineering", International Engineering Technological University, Kazakhstan
7. Mazakov Talgat, Doctor of Physical and Mathematical Sciences, Professor, International Engineering Technological University, Kazakhstan
8. Kadyrakunov Kubanych, candidate of physical and mathematical sciences, associate professor, International Engineering Technological University, Kazakhstan
9. Takabaev Takhir, Candidate of Technical Sciences, Associate Professor, International Engineering Technological University, Kazakhstan
10. Zhanturin Malik, Candidate of Technical Sciences, Associate Professor, International Engineering Technological University, Kazakhstan
11. Bektemesov Amanzhol, PhD, associate professor, International Engineering Technological University, Kazakhstan
12. Ibraev Aidos, PhD, associate professor, International Engineering Technological University, Kazakhstan
13. Aizhanova Aliya, lecturer at International Engineering Technological University
14. Nurgalyeva Rakhilya, lecturer at International Engineering Technological University
15. Demeubaeva Laura, lecturer at International Engineering Technological University
16. Ashirbekov Bauyrzhan, International Engineering Technological University specialist
17. Myrzakhanova Karakoz, International Engineering Technological University specialist



**International scientific and educational conference
"Artificial Intelligence in Engineering and Technology
Education"**

(AIETE-2024)

February 28, 2024

Venue: Almaty, International Engineering Technological University

Time	Event	Location
09.00 - 09.55	Registration of conference participants	Hall, academic building No. 2
10.00 - 10.05	Opening of the international scientific and educational conference and opening remarks	Conference hall, academic building No. 2
10.05 - 10.20	Greeting	Conference hall, academic building No. 2
10.20 - 11.30	Plenary session	Conference hall, academic building No. 2
11.30 - 11.50	Coffee break	
11.50 - 13.00	Master Class	Conference hall, academic building No. 2
13.00 - 14.00	Lunch	
14.00 - 14.40	Exhibition	Sports hall, academic building No. 2
14.40 - 15.00	Signing cooperation agreements	Conference hall, academic building No. 2
15.00 - 16.10	Sectional meeting	Conference hall, academic building No. 2
16.10 - 16.20	Coffee break	
16.20 - 17.00	Breakout session	Conference hall, academic building No. 2
17.00 - 18.00	Summing up the results of the first day of the conference. Discussion and recommendations	Conference hall, academic building No. 2



**International scientific and educational conference
"Artificial Intelligence in Engineering and Technology Education"
(AIETE-2024)**

February 29, 2024

Venue: Almaty, International Engineering Technological University

Time	Event	Location
09.00 - 09.15	Registration of conference participants	Hall, academic building No. 2
09.15 - 10.40	Master Class	Conference hall, academic building No. 2
10.40 - 11.50	Sectional meeting	Conference hall, academic building No. 2
11.50 - 12.00	Coffee break	
12.00 - 13.30	Breakout sessions	Conference hall, academic building No. 2
13.30 - 14:30	Lunch	
14.30 - 15.30	Sectional meeting	Conference hall, academic building No. 2
15.30 - 16.00	Closing of the conference	Conference hall, academic building No. 2
16.00 - 16.30	Award ceremony	Conference hall, academic building No. 2



PROGRAMM
“Artificial Intelligence in Engineering and Technology Education” (AIETE-2024),
International scientific and educational conference
February 28-29, 2024
Almaty, Kazakhstan

02/28/2024, Wednesday	
Educational building No. 2, 2nd floor, conference room	
09.00 - 09.55	Registration of conference participants
10.00	Opening of the international scientific-educational conference and opening remarks
Greeting	
10.00 - 10.10	Zhumagulov Bakytzhan, President of the National Engineering Academy of the Republic of Kazakhstan, Academician of the National Academy of Sciences of the Republic of Kazakhstan, Doctor of Technical Sciences, Professor, Kazakhstan
10.10 - 10.20	Ahmed-Zaki Darkhan, Vice-Minister of Science and Higher Education of the Republic of Kazakhstan, Doctor of Technical Sciences, Professor, Kazakhstan
Plenary session	
Moderator: Zhakebaev Dauren, President of IETU, professor	
10.20 - 10.30	Plenary report 1: Development of a scientific and educational cluster using cloud computing technologies Full name: Temirbekov Nurlan Position: Vice President, Professor Place of work: Al-Farabi Kazakh National University
10.30 - 10.40	Plenary report 2: Experience and prospects for introducing three-year education based on trimesters in Kazakhstani universities Full name: Turar Olzhas Position: Dean of the Faculty of Information Technology, Associate Professor Place of work: Al-Farabi Kazakh National University
10.40 - 10.50	Plenary talk 3: Educational programs on artificial intelligence: trends and prospects Full name: Mansurova Madina



	Position: Head of the Department of Artificial Intelligence and Big Data, Professor Place of work: Al-Farabi Kazakh National University
10.50 - 11.00	Plenary talk 4: Online monitoring system for groundwater in the Aral Sea region based on the Internet of Things Full name: Saymanov Islambek Position: PhD, associate professor Place of work: National University of Uzbekistan named after Mirzo Ulugbek
11.00 - 11.10	Plenary talk 5: From cloud AI to embedded AI in cardiovascular health assessment Full name: Octavian Adrian Postolache Position: professor Place of work: ISCTE - University Institute of Lisbon (ISCTE-IUL)
11.10 - 11.20	Plenary talk 6: Intelligent systems Full name: Mamyrbayev Orken Position: Deputy General Director, Associate Professor Place of work: RSE "Institute of Information and Computing Technologies"
11.20 - 11.30	Plenary talk 7: Development of highly efficient gas sensors for industrial enterprises Full name: Ibraymov Margulan Position: Director of the Department of Science and Innovation
11.30 - 11.50	Coffee break
Master Class	
Moderator: Karuna Oksana, Vice-Rector for Strategic Development, Science and International Relations, IETU	
11.50 - 12.00	Theme 1: Dominant trends in the development of universities in 2024: convergence of science for the purpose of commercialization of innovative results Full name: Karuna Oksana Position: Vice-Rector for Strategic Development, Science and International Relations, Associate Professor Place of work: International University of Engineering and Technology
12.00 - 12.10	Theme 2: Intelligent field Full name: Shilanbaev Batyrzhan Position: Deputy Director of the Department of Production Automation and Digitalization Place of work: JV KazGerMunai LLP
12.10 - 12.20	Theme 3: Application of artificial intelligence in education Full name: Kuvatbaev Aibek



	Position: General Director Place of work: Bugin Holding LLP
12.20 - 12.30	Theme 4: Low-code and AI: the future of efficient application development Full name: Kurkebaev Ruslan Position: Founder & CEO Place of work: Axellero.io LLP
12.30 - 12.40	Theme 5: Online insurance settlement Full name: Ashkeev Olzhas Malikuly Position: Deputy Chairman of the Board Place of work: JSC "Insurance Payment Guarantee Fund"
12.40 - 12.50	Theme 6: Cloud engineering Full name: Artem Prima, SadykovNurbek Position: developer Place of work: LLP "qCloudy"
12.50 - 13.00	Theme 7: Application of AI in credit risks Full name: Akhmer Ermek Position: Deputy Director for Retail Risks Place of work: Jusan bank JSC
13.00 - 14.00	Lunch
14.00 -14.40	Exhibition of Intelligent Products Venue: Sports hall, educational building No. 2
14.40 - 15.00	Signing cooperation agreements
Breakout session	
Moderator: Zhakebaev Dauren, President of IETU, professor	
15.00 - 15.10	Sectional report 1: Development of educational programs for training specialists in IT and IoT areas Full name: Urmashiev Baydaulet Position: professor Place of work: Al-Farabi Kazakh National University
15.10 - 15.20	Sectional report 2: Research and modeling of dom-based xss vulnerability identification Full name: Normatov Ibrakhimali Position: professor Place of work: National University of Uzbekistan named after Mirzo Ulugbek
15.20 - 15.30	Sectional report 3: Modeling problems of renewable thermal power engineering using modern computing tools Full name: Belyaev Erzhan Kelesovich Position: professor Place of work: Al-Farabi Kazakh National University



15.30 - 15.40	Sectional report 4: Integration of artificial intelligence and the Internet of things in education Full name: Nalibaev Erkebulan Position: PhD, senior lecturer Place of work: Al-Farabi Kazakh National University
15.40 - 15.50	Sectional report 5: Adaptive educational systems. Using artificial intelligence to improve the educational experience in engineering and technology disciplines Full name: Sarsembayev Magzhan Position: Head of the Department of "Software Engineering" Place of work: International Engineering Technological University
15.50 - 16.00	Sectional report 6: Internet of things in engineering education: Technologies, applications and development prospects Full name: Tolegenova Akmaral Position: Head of the Department of "Smart Technologies in Engineering" Place of work: International Engineering Technological University
16.00 - 16.10	Sectional report 7: Exploration of Neural Networks in Virtual Reality Full name: Inkarbekov Medet Position: PhD, Postdoctoral researcher Place of work: Maynooth University
16.10 - 16.20	Coffee break
16.20 - 16.30	Sectional report 8: New Applications of Artificial Intelligence Full name: Sarmanbetov Sanzhar Position: senior lecturer Place of work: Al-Farabi Kazakh National University
16.30 - 16.40	Sectional report 9: AI in identifying aging markers Full name: Suleimenova Madina Position: lecturer Place of work: International University of Information Technology
16.40 - 16.50	Sectional report 10: Training of engineering personnel: on the implementation of the educational program "Robotic systems" Position: Associate Professor Full name: Zhumasheva Zhadyra Place of work: Al-Farabi Kazakh National University
16.50 - 17.00	Sectional report 11: Development of a Wearable Device for Human Health



	Full name: Zholdas Nurasyil Position: Lecturer Place of work: Al-Farabi Kazakh National University
17.00 - 18.00	Summing up the results of the first day of the conference. Discussion and recommendations



02/29/2024, Thursday	
International Engineering Technological University, Educational building No. 2, 2nd floor, library conference room	
09.00 - 09.15	Registration of conference participants
Master Class	
Moderator: Sarsembayev Magzhan, head of the department "Software Engineering"	
9.15 – 9.30	Theme 1: Automated CRM system for Kaspi store using AI technologies Full name: Zhuravlev Andrey Position: Founder
9.30 – 9.50	Theme 2: Artificial Intelligence in Education Full name: Abilyakimova Aida Position: co-founder Place of work: Qalamedutech LLP
9.50 – 10.10	Theme 3: Prospects for developers in the field of AI Full name: Kayyrbaev Kuanysh, Kadyrov Madiyar Position: developer, AI and blockchain specialist Place of work: Nimbl Academy
10.10 - 10.25	Theme 4: Artificial intelligence in medicine Full name: Kazymbetov Aknazar Position: Head of Antifraud Department Place of work: Wildberries LLC
10.25 - 10.40	Theme 5: Automation of business processes through software development and implementation of IoT technologies Full name: Rakhmetulaeva Sabina Position: Head of business/system analysis Place of work: Alabs.team LLP
Breakout sessions	
Moderator: Akmaral Tolegenova, head of the department of "Smart Technologies in Engineering"	
10.40 - 10.50	Sectional report 1: Solving Large Logical Equations Full name: Berdymurodov Mansur Position: Lecturer Place of work: Perfect University
10.50 - 11.00	Sectional report 2: Robotics at MITU: Research and Development, Training and Future Directions Full name: Ibraev Aidos Position: Associate Research Professor Place of work: International Engineering Technological University
11.00 - 11.10	Sectional report 3: Application of artificial intelligence in biotechnology: from training to innovation



	<p>Full name: Korotetsky Ilya Position: Research Professor Place of work: International Engineering Technological University</p>
11.10 - 11.20	<p>Sectional report 4: Application of machine learning methods to study the negative effects of urban air pollution on the environment Full name: Kasenov Syrym Position: associate professor Place of work: Al-Farabi Kazakh National University</p>
11.20 - 11.30	<p>Sectional report 5: Speaker Recognition Based on a Limited Speech Corpus Full name: Turdagululy Musa Position: Head of the rating center Place of work: K.I. Satpayev Kazakh National Research Technical University</p>
11.30 - 11.40	<p>Sectional report 6: Astrophysics data processing with artificial intelligence Full name: Eskendir Ashimov Position: Lecturer Place of work: Al-Farabi Kazakh National University</p>
11.40 - 11.50	<p>Sectional report 7: Application of neural networks to predict the development curves of technological blocks of uranium deposits Full name: Aizhulov Daniyar Position: Senior Researcher Place of work: K.I. Satpayev Kazakh National Research Technical University</p>
11.50 - 12.00	Coffee break
12.00 - 12.10	<p>Sectional report 8: Nonreciprocal wave propagation in a nonlinear chain Full name: Rakhymzhanova Anar Position: Associate Professor Place of work: Astana IT University</p>
12.10 - 12.20	<p>Sectional Report 9: Investigation of the possibility of non-invasive glucose level measurement in patients with diabetes Full Name: Sarsembayeva Talshyn Position: doctoral student Place of work: Al-Farabi Kazakh National University</p>

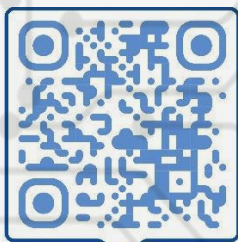
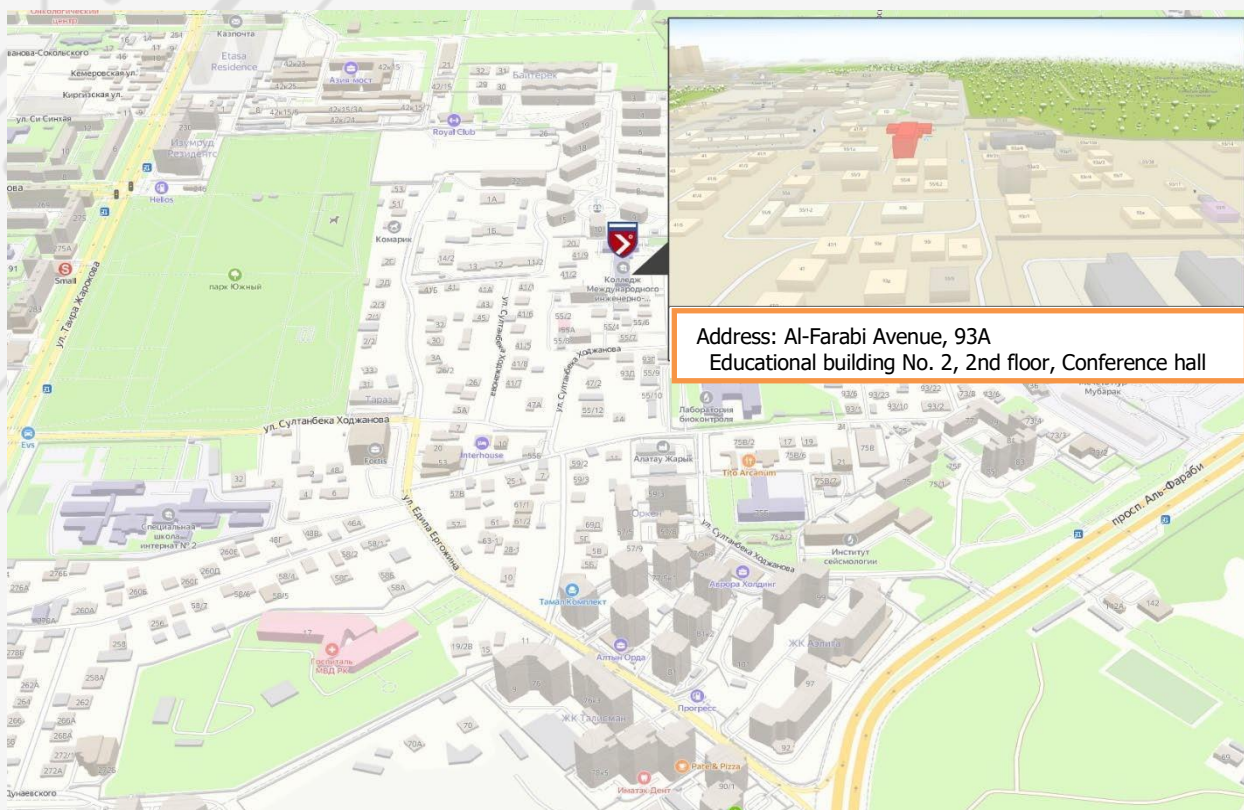


12.20 - 12.30	Sectional report 10: Development of algorithms for controlling the movement of satellites in a constellation Full name: Doszhan Nursultan Position: Deputy Dean of the Faculty of Mechanics and Mathematics, for scientific and innovative work and
12.30 - 12.40	Sectional report 11: Innovative teaching methods using artificial intelligence technologies Full name: Sydykova Makhabbat Position: Associate Professor Place of work: Kyrgyz National University named after J. Balasagyn
12.40 - 12.50	Sectional report 12: Designing an Automated Intelligent HVAC System for Smart Buildings Full name: Iskendirov Bolat Position: master's student Place of work: Al-Farabi Kazakh National University
12.50 - 13.00	Sectional report 13: Elements of artificial intelligence in independent presentation of languages Full name: Bayachorova Batygul Position: Head of the Department of Software Engineering and Computer Technologies Place of work: Kyrgyz National University named after Zhusup Balasagyn
13.00 - 13.10	Sectional report 14: Analysis of Spatio-Temporal Convolutional Neural Networks for Action Detection Tasks Full name: Azatbekuly Nurtugan Position: doctoral student Place of work: Al-Farabi Kazakh National University
13.10 - 13:20	Sectional report 15: Artificial intelligence and tasks without words Full name: Pavel Pankov Position: laboratory manager Place of work: Institute of Theoretical and Applied Mathematics of the National Academy of Sciences of the Kyrgyz Republic
13.20 - 13.30	Sectional report 16: Solvability of a degenerate third-order differential equation Full name: Marat Aigerim Position: doctoral student Place of work: The National Pedagogical University named after Abay
13.30 - 14.30	Lunch



14.30 - 14.40	Sectional report 17: IoT manipulator and rover for urban irrigation mini greenhouses Full name: Amanova Raikhan Position: Lecturer Place of work: Al-Farabi Kazakh National University
14.40 - 14.50	Sectional report 18: Research and Modeling of DOM-Based XSS Vulnerability Identification Full name: Yarashov Inomzhon Position: doctoral student Place of work: National University of Uzbekistan named after Mirzo Ulugbek
14.50 - 15.00	Breakout paper 19: Assessing the negative impact of urban air pollution on public health using machine learning methods Full name: Tamabay Dinara Position: doctoral student Place of work: Al-Farabi Kazakh National University
15.00 - 15.10	Session 20: Evaluation of modern generative networks for echocardiography image generation Full name: Zhanabekov Zhandos Position: doctoral student Place of work: International University of Information Technology
15.10 - 15.20	Breakout Paper 21: Selecting the Appropriate Bi-Analytical Tools for Creating a Digital Company Layout Full name: Koshanova Ayim Position: master's student Place of work: Al-Farabi Kazakh National University
15.20 - 15.30	Breakout Paper 22: Smart Remote Patient Monitoring System Full name: Zaitin Erlan Position: doctoral student Place of work: Al-Farabi Kazakh National University
15.30 - 16.00	Decision-making based on the results of the international scientific and educational conference "Artificial Intelligence in Engineering and Technology Education"
16.00 - 16.30	Award ceremony

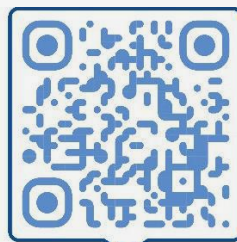




university website



conference website



address in 2gis

