

**9th INTERNATIONAL SCIENTIFIC CONFERENCE
“INTELLIGENT INFORMATION TECHNOLOGIES
FOR INDUSTRY”**

**IITI'25
CONFERENCE PROGRAMME**

**November 5 – 7, 2025, Sirius Federal Territory,
Russia**



**SIRIUS
FEDERAL
TERRITORY**



Sirius
University of Science
and Technology



Springer



UNION
OF INDUSTRIES
OF RAILWAY
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JSC NIIS

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Sirius Federal Territory (Russia)
Sirius University of Science and Technology (Russia)
Rostov State Transport University (Russia)
**Scientific Research and Design Institute for Informatization, Automation,
and Communication in Railway Transport (Russia)**
Russian Association for Artificial Intelligence (Russia)
Association of Railway Equipment Manufacturers (Russia)

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- **Anton Gusev**, Sirius University of Science and Technology, Russia
- **Vladimir Vereskun**, Rostov State Transport University, Russia

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- **Pavel Sundeev**, Sirius University of Science and Technology, Russia
- **Vladimir Skiba**, Sirius University of Science and Technology, Russia

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VENUE

Conference sessions will be held at:

Sirius Federal Territory, Olympic Avenue, 1

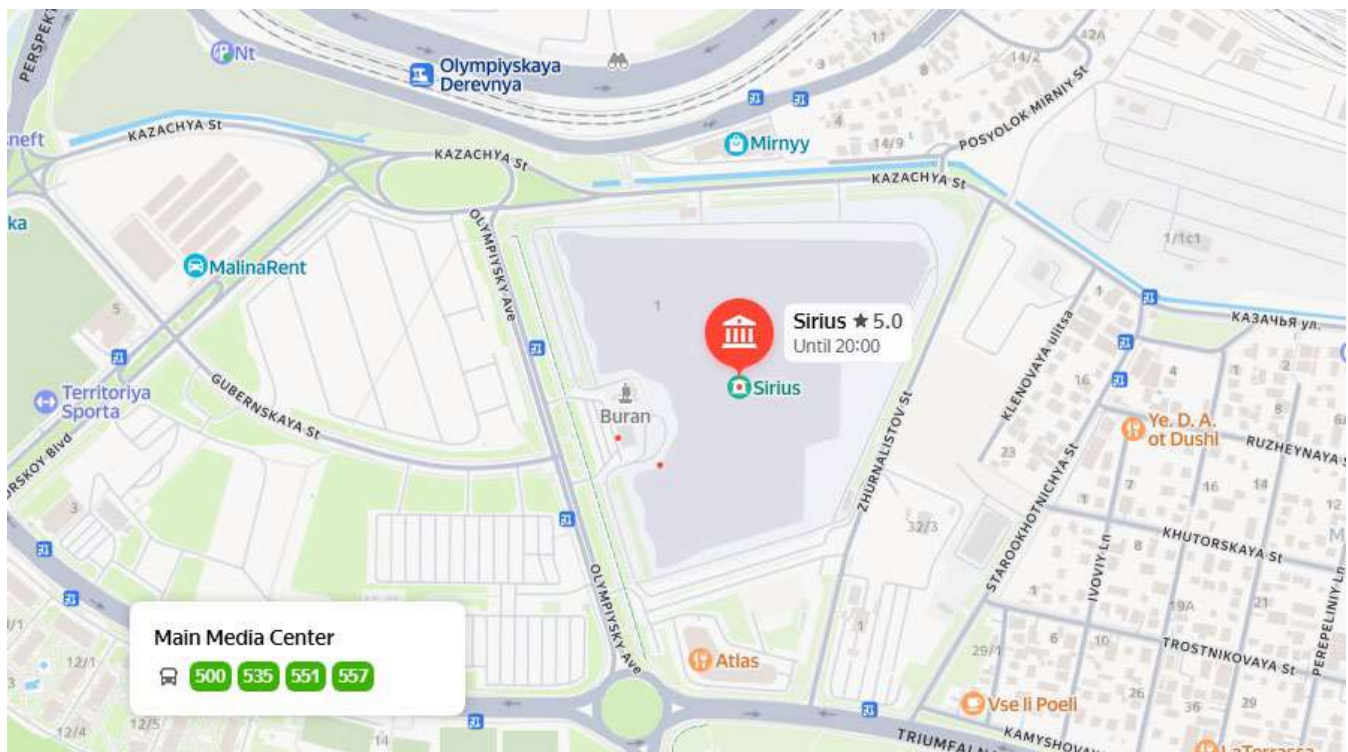
Information for self-approaching to Sirius University:

From Airport:

- **Taxi:** Yandex go, Maxim, about 10 minutes
- **Public Transport:** Take bus 557 or 535, get off at the Main Media Center stop, and walk about 500 meters to reach Sirius University of Science and Technology.

From Railway Station:

- **Taxi:** Yandex go, Maxim, about 10 minutes
- **Public Transport:** Take bus 535, get off at the Main Media Center stop, and walk about 500 meters to reach Sirius University of Science and Technology.



Sirius University of Science and Technology (Olympic Avenue, 1)

November 5, 8:30 – 17:00

November 6, 10:00 – 18:00

November 7, 10:00 – 17:00

Official IIT'25 Dinner will be held at:

Congress hall of Mantera Resort & Congress hotel (ground floor), Golubaya st., 1A

Information for the online participants

Hall 1

<https://teams.microsoft.com/meet/3731737056050?p=vnq90gCRE4zQtS9axF>

Hall 2

<https://teams.microsoft.com/meet/3952373352575?p=N8QmnZLLbk3GTsebrs>

Hall 3

<https://teams.microsoft.com/meet/3222077203067?p=dgrIvcUODSZspdws7G>

Hall 4

<https://teams.microsoft.com/meet/3222960679792?p=JsEO6gI2CfRDFqClv7>

Hall 5

<https://teams.microsoft.com/meet/337838986177?p=1wgXNC4haZkGqYzD0E>

Atom

<https://teams.microsoft.com/meet/3587397423181?p=006t0Dihv9p1XQ44q5>

IIT'I'25 Regulations

25-50 min – Keynote report

10 min – Session report

IITI'25 Programme

Tuesday, November 4 – Check-in at the hotel (from 14:00)

Wednesday, November 5

Events:

- Opening Session
- Plenary IITI reports
- Union of Industries of Railway Equipment (UIRE) section
- Official Dinner

8:30 – 10:00	Registration at Sirius University of Science and Technology	
10:00 – 11:30	Welcome words 📍 Hall «Atom»	
	1. Dmitriy Plishkin , Head of the Administration of the Federal Territory "Sirius", Sirius 2. Anton Gusev , Director of the Sirius University of Science and Technology, Sirius 3. Sergey Kovalev , Chairman of IITI 4. Sergey Grishaev , Director of the Rostov branch of JSC "NIAS" , co-organizer of IITI 5. Anton Rykov , Executive Director of UIRE , co-organizer of IITI	
11:30 – 12:00	Coffee Break	
	IITI Plenary reports 📍 Hall «Atom» Chair: Sergey Kovalev	Session UIRE – The Union of Railways Equipment Industries 📍 Hall 1
12:00 – 13:00	1. Sergey Petrenko , D.Sc. (Tech.), Sirius University of Science and Technology Technologies to counter the new quantum cyber threat 2. Konstantin Gnidko , D.Sc. (Tech.), Associate Professor, Sirius University of Science and Technology Technology for early detection of threats to the information and psychological security of students at educational institutions in the Sirius Federal Territory based on artificial intelligence models and methods	Robotization of complex technological processes Prospects for implementation Part 1 Chair: Sergey Grishaev The program is here: 
13:00 – 14:00	3. Liudmila Zhilyakova , D.Sc. (Physics and Mathematics), Institute of Control Sciences, Russian Academy of Sciences The Problem of Time Encoding in Biologically Inspired Intelligent Systems	

14:00 – 15:00	Lunch	
	  Hall «Atom» Chair: Sergey Kovalev	UIRE  Hall 1
15:00 – 16:00	1. Lev Utkin , D.Sc. (Tech.), Professor, Peter the Great St. Petersburg Polytechnic University, Russia Risk Analysis, Reliability, and Survival Models: Current State, Latest Advances, and Applications in Industry and Medicine	Robotization of complex technological processes Prospects for implementation Part 2
16:00 – 17:00	1. Vladimir Zaborovskij , D.Sc. (Tech.), Professor, Peter the Great St. Petersburg Polytechnic University, Russia A turning point in the development of computer science: generative large language models are not all we need 2. Pavel Sundeev , D.Sc. (Tech.), Sirius University of Science and Technology, Russia Cluster model of information security	The Union's website:  Closing of the meeting. Summing up the results
19:00	Official Dinner	



Thursday, November 6

Events:

- Plenary IITI report
- Multi-Agent Systems
- Mathematical robotics and artificial intelligence, robotic systems
- Generative artificial intelligence
- Artificial Intelligence in Industry, Automation and Intellectualization of industrial, transport and energy systems
- Artificial Intelligence in Information Security, Quantum Computer Science
- Intelligent Information Technologies in Natural, Economic and Social Sciences
- Evolutionary modeling and genetic algorithms
- Scientific and Technical Council JSC «NIIAS»

	  Halls 2, 3, 4	Scientific and Technical Council JSC “NIIAS”  Hall 1
10:00 – 11:00	Dr. Wei Li , Professor, Ph.D., The College of Computer Science and Technology, Harbin Engineering University, China Multivariate Time Series Prediction in Edge Computing Scenarios and Its Applications  Hall 2	The council starts at 12:30 The main research directions of JSC NIIAS: 
11:00 – 12:00	Session 17¹ Multi-Agent Systems  Hall 2 Session 18 Mathematical robotics and artificial intelligence, robotic systems  Hall 3 Session 20 Generative artificial intelligence  Hall 4	
12:00 – 12:30	Coffee Break	

¹ Detailed program of the IITI sessions is presented on page 13

	 Halls 2, 3, 4	Scientific and Technical Council JSC “NIIAS” Hall 1
12:30 – 14:00	Session 1 Artificial Intelligence in Industry, Automation and Intellectualization of industrial, transport and energy systems Part 1 Hall 2 Session 4 Artificial Intelligence in Information Security, Quantum Computer Science Part 1 Hall 3 Session 6 Intelligent Information Technologies in Natural, Economic and Social Sciences Part 1 Hall 4	Digital twins of infrastructure facilities Session Automation and robotization of technological processes in the infrastructure complex Chair: Agop Khatlamadzhiyan
14:00 – 15:00	Lunch	
15:00 – 16:30	Session 2 Artificial Intelligence in Industry, Automation and Intellectualization of industrial, transport and energy systems Part 2 Hall 2 Session 5 Artificial Intelligence in Information Security, Quantum Computer Science Part 2 Hall 3 Session 7 Intelligent Information Technologies in Natural, Economic and Social Sciences Part 2 Hall 4	The meeting program is here: 
16:30 – 17:00	Coffee Break	
17:00 – 18:00	Session 3 Artificial Intelligence in Industry, Automation, and Intellectualization of industrial, transport and energy systems Part 3 Hall 2 Session 19 Evolutionary modeling and genetic algorithms Hall 3 Session 8 Intelligent Information Technologies in Natural, Economic, and Social Sciences Part 3 Hall 4	Closing of the meeting. Summarizing the results

Friday, November 7

Events:

- Financial Mathematics and Engineering
- Logical Foundations in Applied Artificial Intelligence
- Artificial Neural Networks, Machine Learning, and Their Applications
- Intelligent Decision Support Systems
- Intelligent Medical Systems
- Master classes

	IITI Halls 1, 2, 3, 4	Master classes Hall 5
10:00 – 11:30	Session 9 Financial Mathematics and Engineering 📍 Hall 1 Session 10 Logical Foundations in Applied Artificial Intelligence 📍 Hall 2 Session 11 Artificial Neural Networks, Machine Learning, and their Applications Part 1 📍 Hall 3 Session 13 Intelligent Decision Support Systems Part 1 📍 Hall 4	The Training Center of JSC "NIIAS" Chair: Konstantin Kapitonov Seminar Digital Competence Model in digital Transformation projects
11:30 – 12:00	Coffee Break	
12:00 – 13:30	Session 15 Intelligent Medical Systems Part 1 📍 Hall 2 Session 12 Artificial Neural Networks, Machine Learning, and Their Applications Part 2 📍 Hall 3 Session 14 Intelligent Decision Support Systems Part 2 📍 Hall 4	Seminar Fundamentals of information security and current threats
13:30 – 14:30	Lunch	
14:30 – 16:00	Session 16 Intelligent Medical Systems Part 2 📍 Hall 2	Seminar Modern approaches to project management in the field of high technologies: project selection models and features of evaluating the economic efficiency of robotics
16:00 – 17:00	Summing up the conference results 📍 Hall 2	

Saturday, November 8 – Departure of participants



DETAILED PROGRAM OF THE IIT'25 SESSIONS

Session	Reports
1. Artificial Intelligence in Industry. Automation, and Intellectualization of industrial, transport and energy systems. Part 1	Chairs: Gennady Veselov, Ivan Olgeizer 1. Gennady Veselov, Dmitry Elkin, Sergey Sklyarov, Miriam Nicado Garcia and Martha Dunia Delgado Dapena. Synergetic approach to the development of autonomous smart grid systems (offline) 2. Vlada Efremenko, Andrei Konstantinov and Lev Utkin. The Weibull Distribution as a Parametric Survival Model Incorporated into the Second-Order Gradient Boosting (offline) 3. Valeriy Boluchenko, Oleg Kudryavtsev and Vladimir Skiba. Digital Platform for Intelligent Tracking of International Road Transport using Blockchain Technology and Electronic Navigation Seal (offline) 4. Hanxi Zhai, Xiaoyu Guo and Jian Wang. Digital Emergency Management Policy Text Analysis (online) 5. Alexander Zuenko and Yurii Oleynik. Constraint Satisfaction Methods in Mining Planning (online) 6. Andrey Chepiga, Andrey Chebotarev, Vadimir Kandalov, Vlada Malysheva and Vasiliy Shapovalov. Neural Network Model for Adaptive Control of Permanent Magnet Synchronous Motor (online) 7. Ilya Stolyarov and Kamil Masalimov. Application Programming Interface for Automating Beet Sorting (online)
2. Artificial Intelligence in Industry, Automation, and Intellectualization of industrial, transport and energy systems. Part 2	Chairs: Vladimir Skiba, Andrey Sukhanov 1. Artem Puzerenko, Andrey Sukhanov, Pavel Borovlev and Agop Khatlamadzhiyan. Learning to Reject: Using an Error Class for More Reliable Object Detection (offline) 2. Aleksandr Adadurov, Igor Savelev, Pavel Tsomaev and Kseniya Arinushkina. Automated non-contact measurement of geometric parameters of wheels for safe movement of rolling stock (offline) 3. Ivan Kulinich, Oleg Kirovskii and Anton Korolev. Artificial intelligence-based methods for evaluation of severity parameter for Hazard Analysis and Risk Assessment of Highly Automated Vehicle (offline) 4. Maxim Tikhomirov, Oleg Kirovskii, Gennadii Kruglov, Alexander Luchkov and Anton Korolev. The use of LLM in selecting architectural patterns for safety critical automotive systems (offline)

	5. Vasiliy Krundyshev, Maxim Kalinin, Oleg Vasiliev and Artem Konoplev. Protection of DLT systems in smart cities based on trust model (online) 6. Sergey Dulin, Dmitriy Nikishin and Anton Ryabtsev. Intellectualizing Geodata Access based on Semantic Geointeroperability (online) 7. Vladimir Zekhtser, Andrey Kostoglotov and Vladimir Tavunov. An algorithm for training a recurrent neural network using an adaptive Kalman filter in trajectory processing tasks (online)
3. Artificial Intelligence in Industry, Automation and Intellectualization of industrial, transport and energy systems. Part 3	Chairs: Sergey Kucherov, Maria Butakova 1. Maxim Gorda and Dmitry Levshun. Formalizing Knowledge of Vulnerabilities and Threats: An Ontological Approach based on the FSTEC VDB (offline) 2. Nikolay Lyabakh, Maksim Bakalov and Yulia Bakalova. The implementation of nature-like decision-making mechanisms based on neuro-fuzzy modeling (offline) 3. Danil Fedorin, Dmitry Polyanichenko, Sergey Grishaev and Aleksandr Dolgiy. Transformation the Mathematical Model of Telemetry Data to Reconstruct the Wagon History Movements in the Station for the Purpose of Idle Analytics (offline) 4. Andrey Ilchenko. Combination of HIL and ANN-Based modelling of RF Signal Disruption in FPV Control protocols (offline) 5. Semyon Nastenkov, Dmitry Polyanichenko, Maria Butakova and Sergey Grishaev. Automation and Intellectualization of Management Train and Shunting Movements at the Marshalling Yard (online) 6. Asker Khashev, Natalya Kovaleva and Timur Mamaev. Models of urban transport infrastructure development under systemic constraints (online) 7. Yuri Bulavin, Olesya Ignatieva and Vladimir Vereskun. Neural Network-Based Control of Train Dynamics for Railway Road Digital Twins (online)
4. Artificial Intelligence in Information Security, Quantum Computer Science. Part 1	Chairs: Igor Kotenko, Sergey Petrenko 1. Michael Zabezhailo, Alexander Grusho, Dmitry Smirnov and Elena Timonina. On some possibilities to detect a crash in a large IT infrastructure by indirect indicators (offline) 2. Konstantin Gnidko and Dmitry Lisov. Fine-Tuned ResNet50 for Binary Classification of Harmful Visual Stimuli: Dataset Curation and Performance Benchmarking (offline)

	3. Konstantin Gnidko and Irina Vasilenko. Quantum-like Phenomena in the Spread of Collective Emotions in Social Networks: Model, Experiment, and Dataset (offline) 4. Bertrand Frederick Boui A Boya and Lyudmila Babenko. Hopfield neural network encryption scheme for medical images (offline) 5. Albina Ismagilova. Algebraic approaches in cryptographic systems (offline) 6. Georgii Abramenko and Igor Kotenko. Ontology-Guided Heterogeneous Graph Retrieval for Large-Language-Model Interpretation of Suricata Events (online) 7. Igor Kotenko, Igor Saenko and Vladimir Sadovnikov. Combining Methods for Protecting Image Recognition Systems from Adversarial FGSM Attacks (online) 8. Xin Li, Chunyu Huo and Chengli Zhao. Quantum Reservoir Computing for Modeling Nonlinear Complex Dynamics (online)
5. Artificial Intelligence in Information Security, Quantum Computer Science. Part 2	Chairs: Sergey Petrenko, Andrey Chechulin 1. Pavel Sharikov and Andrey Chechulin. Methodology for Analyzing Dockerles for Vulnerabilities Using AI (offline) 2. Ariel Balloira Reyes, Alexey Tselykh, Yan Varakin and Timur Gadzhiev. A Reinforcement Learning-Based Agent Training Environment for Autonomous Cybersecurity Protection (offline) 3. Pavel Sundelev. The cluster model of information protection (offline) 4. Pavel Laptev. A complex approach to biometric authentication based on human face, speech and thermal images (offline) 5. Efim Shchegolev and Dmitry Levshun. Exploring BERT for Vulnerable Source Code Detection in Internet of Things Systems (offline) 6. Maxim Gorda and Andrey Chechulin. Architecture of a Decision-Support Assistant for Cybersecurity Incident Investigation (offline) 7. Kristina Makoveychuk, Alexander Olifirov and Yan Makoveychuk. Methodology for Intelligent Traffic Synthesis and Protection in IoT Systems Using Quantum-Resistant Models (offline) 8. Yan Makoveychuk and Alexey Markov. Intelligent Intrusion Detection System for IoT Based on GAN and MSCNN-BiLSTM (offline)

6. Intelligent Information Technologies in Natural, Economic, and Social Sciences. Part 1	Chairs: Sergei Kuchеров, Yakovleva Natalia 1. Sergei Kuchеров, Yuri Rogozov and Alexander Sviridov. Hybrid approach using artificial intelligence for software systems development tasks (offline) 2. Alexandr Alexandrov, Ekaterina Kolomenskaya, Vera Butova and Maria Butakova. Neuro-Fuzzy Modeling for Synthesis Optimization: A Pathway to Advanced Porous Materials (offline) 3. Liudmila Zhilyakova. Computational Model of Interval Timing in Active Intelligent Agents (offline) 4. Olga Gavrilenko, Valerii Oliseenko and Maxim Abramov. Feature engineering in the task of predicting the psychological traits online social network users (offline) 5. Alexey Bursykov and Sergey Solodov. A knowledge-based view for measuring intellectual capital in innovative strategies (online) 6. Boris Savelev and Alexander Roschyn. Knowledge capitalization through research projects and knowledge engineering using semantic flows analysis (online) 7. Sergey Solodov. An innovative model of human capital management for triggering sustainable development (online)
7. Intelligent Information Technologies in Natural, Economic, and Social Sciences. Part 2	Chairs: Yakovleva Natalia, Sergei Kuchеров 1. Konstantin Gnidko and Vadim Sergeev. Embedding Human Value Systems in Hierarchical Ultrametric Spaces for AI-Based Cybersecurity (offline) 2. Olga Bulygina, Andrey Sokolov and Margarita Vorotilova. Fuzzy multicolony bioheuristics for multicriteria optimization of quality management of chemical-technological processes (online) 3. Alexey Bursykov and Boris Savelyev. Enhancing cross-eldd research management through conceptual representation and human capital framework (online) 4. Fedor Bushmelev, Valeriia Stoliarova and Ilya Prusskikh. Comparative Study of Clustering Algorithms for Inferring Psychological Profiles from VK-User Avatars Semantics (online) 5. Sergey Pronyshyn and Dmitriy Deviatkyn. Forecasting innovative transformation of knowledge resources in the digital landscape based on machine learning approach (online)

	6. Sergey Pronichkin. The influence of the intensity and scale of the search for external technologies on the creation of knowledge intensive technological solutions (online)
8. Intelligent Information Technologies in Natural, Economic, and Social Sciences. Part 3	Chairs: Konstantin Gnidko, Li Yin 1. Galina Rybina and Andrey Grigoryev. Situational Control Application to Construct Adaptive Ontological Environment for Intelligent Tutoring Based on Integrated Expert Systems (offline) 2. Anastasiia Ivashchenko and Tatyana Tulupyeva. Career Prolog: AI-based prediction using digital traces from online social networks (offline) 3. Alexander Lepskiy. Combining Dependent Sources of Information within the Framework of Evidence Theory (online) 4. Alexander Chuyko and Zafar Vazirov. The impact of institutions and human capital on corporate innovation (online) 5. Boris Savelyev. Modeling innovation cohesion in research areas: a higher-order logic approach to conceptual framework construction (online) 6. Zafar Vazirov. Strategic intellectual resources alignment for internal and external institutional environments (online) 7. Alexander Chuyko and Sergey Pronichkin. A methodological framework for deterministic forecasting and uncertainty analysis of innovation diffusion (online) 8. V. Roschyn and Boris Savelev. Modeling the effect of structuring and managing interdisciplinary knowledge based on graph neural networks (online)
9. Financial Mathematics and Engineering	Chair: Mikhail Semenov, Imran Akperov 1. Igor Shnurnikov. Geometrical properties and exact decay of long-short algorithmic trading strategies (offline) 2. Sergey Malov and Michael Baron. Detection of Temporary Disorders with Application in Electricity Pricing (offline) 3. Artyom Vyatkin, Valerii Oliseenko and Ruslan Morozov. Comparison of LLMs on Financial Professional Tests (online) 4. Natalia Danilova, Grigory Beliavsky and Elena Kamchatnaya. Statistical Machine Learning in Risk Management for Random Investing (online)

	5. Xiaokang Zhang, Wenhui Tan, Mengjun Yu, Qizi Huangpeng and Xiaojun Duan. Interaction Modeling and System Stability Analysis in Financial Markets (online) 6. Dmitry Polovnikov, Vyacheslav Zadorozhnyi and Mikhail Semenov. Application of reinforcement learning method to exchange orders in rebalancing transport asset positions (online)
10. Logical Foundations in Applied Artificial Intelligence	Chair: Aleksander Ereemeev, Sergey Kovalev 1. Alexander Ereemeev and Gerald Plesnewicz. Boolean and metric extensions of Allen's interval logic (offline) 2. Mikhail Yurushkin, Ilya Slynko and Stanislav Bachurin. Minimal String Search under Regular Constraints (offline) 3. Maria Mikheyenkova. On the Role of Argumentation in Trustworthy Decision-Making Systems (online) 4. Vera Ilicheva and Alexander Guda. Analysis of a Logical Approach for Modeling Transport Systems Extended by Built-in Arithmetic (online) 5. Alexander Bochkov. On the "Reasonableness" Criterion for Artificial Intelligence (online)
11. Artificial Neural Networks, Machine Learning and their Applications. Part 1	Chairs: Lev Utkin, Vladimir Skiba 1. Lev Utkin, Stanislav Kirpichenko, Andrei Konstantinov, Vladimir Zaborovsky, Igor Orlov and Natalya Verbova. A probabilistic concept-based learning method within the framework of survival analysis (offline) 2. Andrei Konstantinov, Lev Utkin and Natalya Verbova. Neural Network as a Loss Function for Constructing Decision Tree (offline) 3. Andrei Petrovski, Georgii Abramenko and Igor Kotenko. Machine Learning-based Intelligent Measurement in Industrial Digital Twins (offline) 4. Andrey Trukhachev, Yuri Sobolev, Kirill Papkov, Victor Pavlov and Vladimir Skiba. A Neural Network Hierarchy for Image Recognition and Interpretation in Cargo and Vehicle X-Ray Inspection Systems (offline) 5. Mikhail Yurushkin, Artyom Gornostal, Pavel Babich, Ricardo Domingues, Hugo Catao and Reinaldo Scherner. Automated Corn Kernel Counting from Multiple Views (offline) 6. Shuchang Zhang, Haoxing Yang and Hongxia Wang. PnP-dPPM: Accelerating Plug-and-Play Methods with Degenerate Proximal Point Methods (online)

	7. Qi Wang, Guofeng Fu and Zekun Li. Multi-task deep convolutional neural network based on YOLOv11 for tomato fruit ripening detection (online)
12. Artificial Neural Networks, Machine Learning and their Applications. Part 2	Chairs: Alexey Tselykh, Alexey Averkin 1. Alexey Averkin, Yuri Trofimov, Alex Lebedev and Andrei Ilin. Hybrid and Hierarchical Explainable AI based on Kolmogorov-Arnold Networks (offline) 2. Gleb Guskov, Nadezhda Yarushkina, Maria Novichkova and Pavel Dudarin. Application of Fuzzy c-means clustering algorithm and NLP for social media post distribution based on expert-defined topics (offline) 3. Dmitrii Mikhailov and Maxim Abramov. Lion Optimizer: the impact of hyperparameter selection on the quality of model training (offline) 4. Alik Fazylova, Vladimir Sennov, Alexey Lukashin and Alexander Gorbunov. Intellectual Algorithms Based on Text Embeddings and Metric Learning for Searching Similar Documents in Patent Examination (offline) 5. Anton Misnik and Vadim Borisov. Meta-Associative Graph Ontologies for Industrial Machine Learning (online) 6. Andrey Puchkov, Andrey Sokolov and Margarita Vorotilova. CNN-LSTM Autoencoder for Anomaly Detection in Phosphate Ore Thermal Processing Data (online) 7. Mikhail Avshalumov and Dmitry Yudin. Towards fast image segmentation based on visual-language prompts (online) 8. Anna Kolodenkova and Mikhail Bochkarev. Problems of recognizing a potential intruder by body movements and face and ways of solving them (online)
13. Intelligent Decision Support Systems. Part 1	Chairs: Gleb Fedorov, Imran Akperov 1. Imran Akperov and Boris Martynov. Integrated Organizational Design for Enhancing Digital Consciousness Through Meta competency Development (offline) 2. Anton Romanov, Aleksey Filippov and Liliya Kamaletdinova. A context-based approach to fuzzy type-2 membership functions parametrizing in control applications (online) 3. Maxim Beskhmelnov, Artem Vyatkin, Yuri Dobrikov and Oleg Lebedev. Hybrid Algorithm for Forming a Route Configuration Taking into Account Uncertainty in Terrain Information (online)

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