



SCHEDULE

Date/time UAE time-zone	09.10.2023 MONDAY	10.10.2023 TUESDAY	11.10.2023 WEDNESDAY	12.10.2023 THURSDAY	13.10.2023 FRIDAY
	Day 1 online	Day 2 online	Day 3 blended	Day 4 blended	Day 5 online
09:30 – 10:00	Official opening of the conference		Presentation by Hosts/VIP		
10:00 – 11:00	Young Scientists Presentations	Young Scientists Presentations	Making Complex Systems Tractable: The Predictive Power of Computational Science Peter Sloot <i>University of Amsterdam</i>	Industrial Panel Discussion Industrial-inspired AI: will domain-specific knowledge help to go through AI winter?	Young Scientists Presentations
11:00 - 12:00			Automated machine learning: current state and perspectives Nikolay O Nikitin <i>ITMO</i>		
12:00 – 12:30	Coffee break				
12:30 – 13:30	Young Scientists Presentations	Young Scientists Presentations	Vision-based Human Object Interaction Understanding Using Knowledge Bases and Reasoning Konstantinos Papoutsakis <i>Mediterranean Hellenic University, Greece</i>	Emerging Frontiers in AI and Digital Twins for Supply Chains Raja Jayaraman <i>Khalifa University</i>	Young Scientists Presentations
13:30 – 14:30			The topological approach for explainable AI Alexandra Vatjan <i>ITMO</i>	State of AI opportunities in Education Prof Hatem Masri <i>Applied Science University (Bahrain)</i>	
14:30 – 15:00				break	
15:00 – 16:00				Artificial Intelligence and Beyond for Finance Davide La Torre <i>SKEMA</i>	



YOUNG SCIENTISTS' PRESENTATIONS

<p>09.10.2023 MONDAY 10:00 – 12:00</p>	<p>10.10.2023 TUESDAY 10:00 – 12:00</p>	<p>13.10.2023 FRIDAY 10:00 – 12:00</p>
<p>HEALTHCARE</p> <p>Oleg Shramko, Andrey Svitenkov, Pavel Zun: Gravity influence in one-dimensional blood flow modeling</p> <p>Tim Isakov, and Sergey Kovalchuk: Methodology of event extraction from unstructured medical texts on the example of the Russian language</p> <p>Tunyan Edmon, Sazikov Rostislav, Fedorov Dmitriy, Kharlamov Sergey: Mobile application BioScan for determining the level of food safety</p> <p>Ekaterina Zhdanova, Igor Korneev, Sergey Kovalchuk: Predictive modeling of multistep clinical pathways: application to infertility treatment process</p> <p>Shuai Xie, Loo Chu Kiong, Licheng Xu, Chaw Sook Hui: Interpretable Early Prediction of Sepsis Based on Counterfactual Inference</p>	<p>CITY SCIENCE</p> <p>Maksim V. Natykin, Aleksandr S. Morozov, Vasili A. Starikov, Sergey A. Mityagin: A method for automatically identifying vacant area in the current urban environment based on open source data</p> <p>Georgii I. Kontsevik, Tatiana A. Churiakova, Valentin A. Markovskiy, Aleksandr Antonov, Sergey A. Mityagin: Urban blocks modelling method</p> <p>Julia Sergeeva, Anastasiia Filatova, Denis Nasonov, Anna Lutsenko: ClarTM: a method for geolocations clarification within extensive urban sites using topic modelling</p> <p>Aleksandr Antonov, Georgii Kontsevik, Maksim Natykin, Sergey A. Mityagin: Feedback2Event: Public attention event extraction from spontaneous data for urban management</p> <p>Ilya Reutov: Generating of synthetic datasets using diffusion models for solving computer vision tasks in urban applications</p>	<p>DEEP LEARNING AND DATA-DRIVEN MODELLING</p> <p>Elizaveta Moskovskaya, Olesya Chebotareva, Valeria Efimova, Sergey Muravyov: Predicting dataset size for neural network fine-tuning with a given quality in object detection task</p> <p>Evgeny Bessonitsyn, Vsevolod Shaldin, Valeria Efimova, Viacheslav Shalamov: Convolutional Neural Network Graph-based Embedding for Neural Architecture Search</p> <p>Ivan Maslov, Evgeny Bessonitsyn, Valeria Efimova, Viacheslav Shalamov: FAMLINN: Representation for Storing Neural Network Architecture</p> <p>Ivan Smirnov, Anastasia Laushkina: Multimodal prediction of profanity based on speech analysis</p> <p>Grigory Shovkoplias, Aleksandra Vatian, Natalia Gusarova, Ivan Tomilov, Olga Lipina, Maria Bobrova: Proactive selection of machine learning models for small sample sizes in cerebral stroke detection based on PAC-learning theory</p> <p>Julia Borisova, Roman Titov, Karine Shakhkhan, Alexander Hvatov: Forecasting of Sea Ice Concentration using CNN, PDE discovery and Bayesian Networks</p>
<p>12:30 – 14:30</p>	<p>12:30 – 14:30</p>	<p>12:30 – 14:30</p>
<p>OPTIMISATION, SCHEDULING AND COMPUTATIONAL INFRASTRUCTURE</p> <p>Aleksandr Voskresenskii, Mikhail Kovalchuk, Anastasiia Filatova, Denis Nasonov, Anna Lutsenko: Hybrid Algorithm for Multi-Contractor, Multi-Resource Project Scheduling in the Industrial Field</p> <p>Andrey S. Stebenkov, Nikolay O. Nikitin: Automated Generation of Ensemble Pipelines using Policy-Based Reinforcement Learning method</p> <p>Kamila Takenova, Valentina Y. Guleva: Determination of Optimal Locations for ATM Network Service Points</p> <p>Maria Koshkareva, Anton Kovantsev: Crisis Behaviour Strategy Recognition Using Transactional Data</p> <p>Xenia Baturina, Viacheslav Shalamov, Sergey Muravyov, Andrey Filchenkov: Mutation Management for Evolutionary Small-Moves Approach in Pickup and Delivery Problem</p> <p>Muratov S. Y., Muravyov S. B.: Framework architecture of a secure big data lake</p> <p>Lev Gervich, Elena Metelitsa, Boris Steinberg: Combination of parallelization and skewed tiling</p> <p>Bagliy, A.P., Krivosheev, N.M., Steinberg, B.Ya: Automatic mapping of sequential programs to parallel computers with distributed memory.</p>	<p>DATA ANALYSIS AND NLP</p> <p>Igor Babikov, Sergey Kovalchuk, Ivan Soldatov: Semi-supervised method for improving general-purpose and domain-specific textual corpora labels</p> <p>Ekaterina Deviatarova, Sergei Fadeeva, Alexey Dukhanov: Analyzing Proficiency Patterns in Test Results Using Clustering and Augmentation Algorithms</p> <p>Stanislav Chumakov, Anton Kovantsev, Anatoliy Surikov: Generative approach to Aspect Based Sentiment Analysis with GPT Language Models</p> <p>Elena Terentieva, Kristina Zheltova, and Alexey Dukhanov: An Approach to Automate the Scientific Paper's Evaluation Based on NLP Technologies: the Experience in the Russian Segment of Financial Technologies Field</p> <p>Gleb Glukhov, Pavel Zhdanov, Egor Shikov: Interpretable Embeddings for Geographic Transactional Activity Analysis</p> <p>Mitra Madanchian, Hamed Taherdoost, Nachaat Mohamed: AI-Based Human Resource Management Tools and Techniques: A Systematic Literature Review</p> <p>Georgii I. Kontsevik, Nikita N. Zakharenko, Semen A. Budenny, Sergey A. Mityagin: Estimating the attractiveness of the city for skilled workers using jobs-housing matching, spatial data and NLP techniques</p>	<p>DEEP LEARNING AND DATA-DRIVEN MODELLING</p> <p>Ilya Revin, Nikita Balabanov, Anna Litvintseva: Light-weight ensembling of deep neural models for object recognition in remote sensing data</p> <p>Irek Saitov, Andrey Filchenkov: CIS Multilingual License Plate Detection and Recognition Based on Convolutional and Transformer Neural Networks</p> <p>Vladimir Nechaev, Sergey Kosyakov: Development of domain-specific automatic speech recognition models based on open-source data</p> <p>Prabhat Kumar, and S. Suresh: mHAR: a novel convolutional recurrent model for recognizing motion-based human activity</p> <p>Danila Vaganov, Egor Shikov, Anton Lysenko, Polina Andreeva: Ontological model identification based on data from heterogeneous sources</p> <p>Pavel Shumkovskii, Valentina Y. Guleva: Investigation of optimal parameters in multiagent dynamical system</p> <p>Vibhav Bagga, Sushanth Sugunan, Apoorva Srivastava, Rajeev Kumar, Prof. Anshul Gupta, Dhananjay Kumar, Dr. Debashis Guha: Adaptive Fusion and Transfer Learning for Enhanced E – Commerce Recommendations</p>