



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>	Strategic Trends in AI Through Impact of Computational Science: What Young Scientists Should Expect  Alexander Boukhanovsky <i>ITMO 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>	



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