



SCHEDULE

Date/time	10.09.2022 SATURDAY	11.09.2022 SUNDAY	12.09.2022 MONDAY	13.09.2022 TUESDAY	
	Pre-conference Days		Day 1	Day 2	
09:30 – 10:00	Arrival of the conference participants		Official opening of the conference Gathering of participants, registration, welcome buffet		
10:00 – 10:30			Gradient-free method for stochastic convex optimization Alexander Gasnikov MIPT, ISP RAS	Computational City Science: from HPC to AI Alexander Boukhanovsky ITMO	
10:30 – 11:00				Model Risk and Meta-learning Alexey Masiutin HSE	Biomarkers of aging: lining to XAI Mikhail Ivanchenko NNSU
11:00 – 11:30					
11:30 – 12:00					
12:00 – 12:30					Break
12:30 – 13:00				Bus sightseeing tour Walk&talk event	
13:00 – 13:30					Young Scientists Presentations
13:30 – 14:00					
14:00 – 14:30					
14:30 – 15:00					
15:00 – 15:30					
15:30 – 16:00					
16:00 – 16:30				ITMO University tour Walk&talk event	Школа. День 1. Планируем решение задачи Подготовка заявок на междисциплинарные проекты с элементами ML: постановка проектных задач школы Александр Бухановский
16:30 – 17:00			Школа. День 1. Планируем решение задачи Суть в данных: можно ли построить модель, и как оценить достижимость результата предсказательного моделирования Антон Кованцев	Школа. День 2. Строим модель на данных Как построить хорошую модель: гибридные вероятностные модели для оценки причинно-следственных связей Ирина Деева	
17:00 – 17:30					
17:30 – 18:00					
18:00 – 18:30					
18:30 – 19:00	Pre-party Walk&talk event		Visiting the National Center for Cognitive Research of ITMO University	Школа. День 2. Работа над проектами	
19:00 – 19:30					
19:30 – 20:00					



Date/time	14.09.2022 WEDNESDAY	15.09.2022 THURSDAY	16.09.2022 FRIDAY	17.09.2022 SATURDAY	
	Day 3	Day 4	Day 5	Day 6	
10:00 – 10:30	Deep Learning Algorithms for Digital Imaging	Application of artificial intelligence to mechanics	ML and data analysis in casual game marketing tasks: the Playrix case		
10:30 – 11:00	Peter Gladilin Huawei	Alexey Kornaeв Innopolis	Ivan Derevitsky Playrix		
11:00 – 11:30	Attention in random forests: How to implement attention without gradient-based algorithms	Complexity Science: A new road to reality	Similarity analysis for well performance ranking		
11:30 – 12:00	Lev V. Utkin, Andrei V. Konstantinov SPbPU	Peter Sloot UVA	Nikita Bukhanov Aramco		
12:00 – 12:30	Coffee break				
12:30 – 13:00	Young Scientists Presentations				
13:00 – 13:30					
13:30 – 14:00					
14:00 – 14:30					
14:30 – 15:00					Lunch time
15:00 – 15:30	Школа. День 3. Оцениваем модель	Действительно ли модель удачна: оценка качества модели ИИ на основе данных	Школа. День 5.	Работа над проектами	
15:30 – 16:00		Сергей Иванов, Иван Ходненко			Приятно ли это брать в руки: обеспечение качества кода и документирования модели
16:00 – 16:30		А можно ли лучше: сравнение, ранжирование и реинжиниринг моделей ИИ			Давид Добряков
16:30 – 17:00	Александра Ватян	Человеческий фактор: ИИ и профессиональные компетенции			
17:00 – 17:30	Road treats	Олег Басов, Анастасия Лаушкина			Защита проектов
17:30 – 18:00	Break		Science bar hopping Walk&talk event		
18:00 – 18:30	Excursions to the Yandex office Walk&talk event	Школа. День 4.		Работа над проектами	
18:30 – 19:00					
19:00 – 19:30					
19:30 – 20:00					
20:00 – 20:30					
20:30 – 21:00					
21:00 – 21:30					



YOUNG SCIENTISTS' PRESENTATIONS

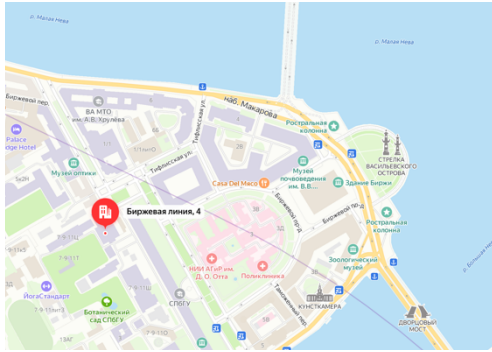
12.09.2022 MONDAY 12:30 – 14:30	13.09.2022 TUESDAY 12:30 – 14:30	14.09.2022 WEDNESDAY 12:30 – 14:30	15.09.2022 THURSDAY 12:30 – 14:30	16.09.2022 FRIDAY 12:30 – 14:30
URBAN	INDUSTRY	SOCIETY	MEDICINE	THEORY
<p>Ariel Scagliotti, David Margarit, Marcela Reale and Guillermo Jorg Influence of Setting and Predictors in Neural Network Model Performance: a Buenos Aires Air Quality Case Yamen Habib and Andrey Filchenkov Multi-Agent Reinforcement Learning for Multi Vehicles One-commodity Vehicle Routing Problem Margarita Mishina, Alexander Khrukov, Valentina Solovieva, Liubov Tupikina and Sergey Mityagin Method of intermodal accessibility graph construction Boris Nizomutdinov and Anna Uglova Development of a method for assessing the safety of the urban environment based on the analysis of the communication practices of city residents in geoinformation services Aleksandr Antonov Anomalies in feedback: detection of hidden events in dynamics of city service complaint reporting Julia Sergeeva, Anastasiia Filatova, Mikhail Kovalchuk and Sergey Teryoshkin SemAGR: semantic method for accurate geolocations reconstruction within extensive urban sites George Kontsevik, Aleksey Sokol, Vladislav Evstigneev, Yuri Bogomolov, and Sergey Mityagin Modeling the citizens settlement in residential buildings Iuliia Krasnoperova and Valentina Soloveva A method developed for selecting street-road network sections to create pedestrian public spaces, illustrated by the example of St. Petersburg with the use of transport modelling Alexander Khrukov, Mishina Margarita, Stanislav Sobolevsky City services provision assessment algorithm Aleksey Rezykh, Aleksandr Ovcharenko, Roman Lemeshkin and Sergey Kovalchuk Modeling the workflow of a field hospital in earthquake conditions</p>	<p>Md. Ashiqur Rahaman Nishad, Meherabin Akter Mitu and Nusrat Jahan Potato Leaf Disease Classification using K-means Clustering Segmentation with Deep Learning Networks Mustapha Lawal, Zahraden Bala, Fatima Zambuk and Badamasi Imam Transfer Learning Approach for Malware Images Classification on Android Devices Using Deep Convolutional Neural Network Ilya Reutov, Denis Moskvin, Maxim Venediktov and Alyona Voronova Generating Synthetic Data to Solve Industrial Control Problems by Modeling a Belt Conveyor Vasilii Oskolkov, Maksim Akkuratnyy, Alik Yakubov, Aleksandr Kurkin, Konstantin Popov, Nikita Shakhanov, Evgeniy Ershov, Ivan Levichev and Igor Varfolomeev Development of a System for Detecting and Notification Incomplete Tapping of Cast Iron from a Blast Furnace Based on Computer Vision Methods Maria Rumiantceva and Andrey Filchenkov Deep Learning and Pseudo-Labeling for Ore Granulometry Geesara Kulathunga A Reinforcement Learning based Path Planning Approach in 3D Environment Elena Egorova, Gleb Glukhov and Egor Shikov Customer transactional behaviour analysis through embedding interpretation Ilyas Varshavskiy, Elizaveta Stavinova and Petr Chunaev Forecasting railway ticket demand with search query open data Aleksei Korneev, Mikhail Kovalchuk, Anastasiia Filatova and Sergey Tereshkin Towards comparable event detection approaches development in social media Anna Muratova, Ignatov Dmitry, Ekaterina Mitrofanova and Robulul Islam Explainable Machine Learning for Sequences of Demographic Statuses Ivan Derevitsky Approaches to collecting large arrays of public data on the Internet for the generative design of structures for dynamic pricing of ticket programs Anastasiia Kireeva Development of a method for highlighting anomalies and filling gaps in open data used in the dynamic pricing model Anastasiia Shesterikova Development of a procedure for assimilation of data into a dynamic pricing model in order to adjust the structure of the ticket program over time Gleb Glukhov Descriptive Analysis of Internet Public Data Applicable to Generative Design of Dynamic Pricing Structures for Ticketing Programs</p>	<p>Mikhail Sinko, Anatoly Medvedev, Ivan Smirnov and Anastasiia Laushkina Method of Constructing and Identifying Predictive Models of Human Behavior Based on Information Models of Non-verbal Signals Arthur Minimullin and Anatoly Surikov Multimodal machine learning for emotion recognition Timothy Walter Cuizon and Hernan Alar Lexicon-based Sentence Emotion Detection Utilizing Polarity-Intensity Unit Circle Mapping and Scoring Algorithm Vladimir Panov, Mikhail Kovalchuk, Anastasiia Filatova and Sergey Teryoshkin MuCAAT: Multilingual Contextualized Authorship Anonymization of Texts from social networks Evgeniia Shchepina Modeling the trajectories of interests and preferences of users in digital social systems Prabhat Kumar and S. Suresh FLAAP: An Open Human Activity Recognition (HAR) Dataset for Learning and Finding the Associated Activity Patterns Tihonova Olga, Alexander Khrukov, Alexander Antonov, Danila Parygin, Stanislav Sobolevsky and Sergey Mityagin Extraction of urban context hidden topics based on the Internet publications analysis Tihonova Olga, Yuri Bogomolov, Devashish Khulbe, Stanislav Sobolevsky Detecting a citizens' activity profile of an urban territory through natural language processing of social media data Andrei Gurov, Elizaveta Evmenova and Petr Chunaev Supervised community detection in multiplex networks based on layers convex flattening and modularity optimization Mohamed Abdelkarim Remmide Detection of Phishing URLs Using Temporal Convolutional Network Sreenivas Sremath Tirumala Extracting Features in Neural Networks weights for Efficient Transfer Learning</p>	<p>Ksenia Shkileva and Nikolai Zolotykh Explainable Artificial Intelligence Techniques in Medical Signal Processing Kseniya Sahatova and Ksenia Balabaeva An Overview and Comparison of XAI Methods for Object Detection in Computer Tomography Nasu Mbimi Wormi, Badamasi Imam and Mustapha Lawal Deeper Architecture for Brain Age Prediction Based on MRI Images Using Transfer Learning Technique Israel Huaman, Pavel Zun, Oleg Shramko and Andrey Svitenkov Coupling 1D blood circulation model and substance absorption model to study drug metabolism Nikita Detkov, Ksenia Balabaeva and Sergey Kovalchuk Exploring the relationship between error and interpretation of the segmentation model's prediction Artem A. Bredikhin, Maxim V. Liulukin, Ekaterina A. Nikitina, Dmitriy V. Nikushchenko, Anton A. Stopin and Yulia K. Mikhailozhina Diagnostics of motion sickness (kinetosis) and training of resistance to it in VR maritime simulators Alexandra Matveeva and Vasily Leonenko Application of Gaussian process regression as a surrogate modeling method to assess the dynamics of COVID-19 propagation Sergey Stasenkov and Victor Kazantsev Astrocyte regulation of non-periodic bursting activity of a spiking neural network Levon Abramyan, Iliia Derevitskii, Alina Babenko and Yulia Kononova Predictive Dynamical Interpretable Modeling of Disease Trajectories: Postoperative Observation After Myocardial Infarction</p>	<p>Julia Gurieva, Evgenii Vasiliev and Lev Smirnov Application of conservation laws to the learning of physics-informed neural networks Ekaterina Plesovskaya and Sergey Ivanov Hierarchical Classification on the MNIST Dataset Using Truncated SVD and Kernel Density Estimation Viacheslav Shalamov, Valeria Efimova and Andrey Filchenkov Faster Hyperparameter Optimization via Finding Minimal Regions in Random Forest Regressor Andrei V. Konstantinov, Lev V. Utkin, Stanislav R. Kirpichenko, Boris V. Kozlov, Andrey Y. Ageev Random Forests with Attentive Nodes Maksim Kondakov and Valentina Y. Guleva Dynamics of multiagent reinforcement learning compared to synchronisation dynamics of Kuramoto oscillators Elizaveta Stavinova, Andrey Gurov, Anton Lysenko and Petr Chunaev Performance Ranking of Recommender Systems on Simulated Data Anna Bubnova Approach of variable clustering and compression for learning large Bayesian networks Yury Kaminsky and Irina Deeva BigBraveBN: algorithm of structural learning for bayesian networks with a large number of nodes Denis Nasonov, Alexei Pruduis and Sergey Teryoshkin Evolutionary algorithm for generating optimized configuration of computational distributed cluster considering simulation environment and specified workload Julia Schvartsberg and Alexander Hvator Discovery of multivariable algebraic expressions using evolutionary optimization</p>



LOCATION

ITMO University

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Saint-Peterburg,
Russian
Federation
199034

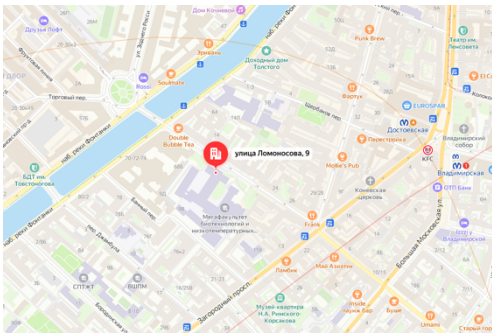


We are waiting for you on September 12 at 09:30, ITMO University, where the opening of the conference will take place. The lectures and young scientists' presentations will also be there.

Zoom-room for online visitors:

<https://us02web.zoom.us/j/83142549218?pwd=S0xwL3FvRzczSFFnT2ZQWUZRdlRHQT09>

Conference: 831 4254 9218
Access code: 962916



Pre-party

ITMO University

9, Lomonosova street,
Saint-Peterburg,
Russian Federation
191002

Bus sightseeing tour

ITMO University

4, Birjevaya line,
Saint-Peterburg,
Russian Federation
199034

We are waiting for you on September 11 at 11:15,
near ITMO University, on Academician Sakharov Square.

Please, pay attention, that some walk&talk events, have restrictions on the number of participants. If you have not registered in advance, write, or call us:

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nccr@itmo.ru

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https://t.me/+c82DbqZUP_pjNmYy