



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										
13:30 – 14:00										
14:00 – 14:30										
14:30 – 15:00	Lunch time		Lunch time							
15:00 – 15:30	Школа. День 3. Оцениваем модель	Действительно ли модель удачна: оценка качества модели ИИ на основе данных	Школа. День 4. Доводим до заказчика	Приятно ли это брать в руки: обеспечение качества кода и документирования модели	Школа. День 5.	Работа над проектами				
15:30 – 16:00		Сергей Иванов, Иван Ходненко		Давид Добряков						
16:00 – 16:30		А можно ли лучше: сравнение, ранжирование и реинжиниринг моделей ИИ		Человеческий фактор: ИИ и профессиональные компетенции		Защита проектов				
16:30 – 17:00		Александра Ватян		Олег Басов, Анастасия Лаушкина						
17:00 – 17:30	Road treats		Break		Closure of the Conference After-party on the ship Walk&talk event					
17:30 – 18:00	Excursions to the Yandex office Walk&talk event		Школа. День 4.						Science bar hopping Walk&talk event	
18:00 – 18:30			Работа над проектами							
18:30 – 19:00										
19:00 – 19:30										
19:30 – 20:00										
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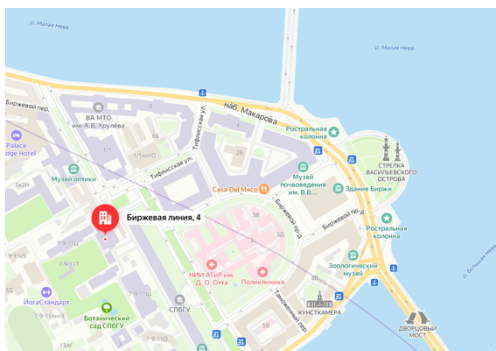
YOUNG SCIENTISTS' PRESENTATIONS

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

## LOCATION

ITMO University

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



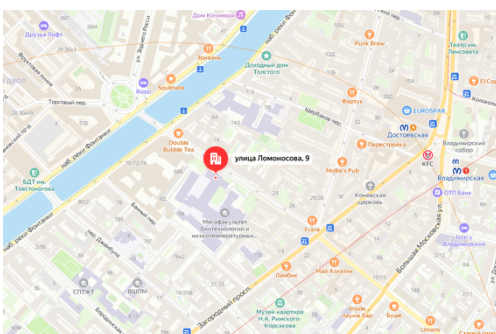
We are waiting for you on September 12 at 09:30, ITMO University, where the opening of the conference will take place. The lectures and young scientists' presentations will also be there.

**Zoom-room for online visitors:**

<https://us02web.zoom.us/j/83142549218?pwd=S0xwL3FvRzczSFFnT2ZQWUZRdIRHQ09>

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:

+7 (812) 909 3156  
[nccr@itmo.ru](mailto:nccr@itmo.ru)

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