

DATE/TIME (MSC)	Pre-school Day pre-recorded lectures, available at any time	28.06.2021 MONDAY	29.06.2021 TUESDAY	30.06.2021 WEDNESDAY	01.07.2021 THURSDAY	02.07.2021 FRIDAY	03.07.2021 SATURDAY			
10:00 – 10:30	How to Find Scientific Literature for Your Research Alexandra Klimova Introductory lecture	Conference Welcome Address	Agent Based Modeling of Complex Systems George Kampis Keynote lecture	Social Interactions Are Neither Binary nor Scalar Janusz Holyst Keynote lecture	Complexity and Ambitions Aernout Schmidt Keynote lecture	TBA Shahab Shamshirband Keynote lecture	Supervised project work			
10:30 – 11:00										
11:00 – 11:30	Data Driven Modeling; part I, pre-recorded Anna Kalyuzhnaya Introductory lecture	Modelling Social Complex Systems: theory, data and policy Mike Lees Keynote lecture	Concurrent Indexes Supporting Complex Queries Panagiota Fatourou Keynote lecture	Multiscale Modelling of Hemodynamics Alfons G. Hoekstra Keynote lecture	Electronic Structure Simulations for Nanomaterials Ioannis Remediakis Keynote lecture	Optimized Large Scale Systems Christos Kozanitis Keynote lecture				
11:30 – 12:00										
12:00 – 12:30	Data Driven Modeling; part I, pre-recorded Anna Kalyuzhnaya Introductory lecture		Regime-switching Forecast Combinations: a 2-stage Scheme for Wind-farm Energy Outputs Yiannis Kamarianakis Keynote lecture	Computational Biology Approaches for Research on Ageing João Pedro de Magalhães Keynote lecture	Contribution of Artificial Intelligence and Automatic Control to Water System Management Eric Duviella Keynote lecture	Cognitive information technologies: how can AI enhance human creativity Alexander Boukhanovsky Keynote lecture				
12:30 – 13:00										
13:00 – 13:30	LUNCH TIME	QUIZ TIME A game for meeting participants	LUNCH TIME					Project defense		
13:30 – 14:00										
14:00 – 14:30	Methods for Trusted Machine Learning Klavdya Bochenina, Sergey Kovalchuk Introductory lecture	How to work with Jupiter Hub Nikolay Butakov Tutorial for school participants	Machine Learning for Data Preprocessing and Anomalies Detection Anna Kalyuzhnaya, Nikolay Nikitin Workshop	Young scientists' session	Methods for Synthetic Data Generation Anna Kalyuzhnaya, Irina Deeva Workshop	Young scientists' session	Machine Learning for Complex Networks Danila Vaganov Workshop	Young scientists' session	Mining of Domain-Specific Textual Data Anastasia Funkner Workshop	Young scientists' session
14:30 – 15:00										
15:00 – 15:30	Graph Databases: Deep Dive into the Surface Alexey Muratov Workshop	Discussion time for teams, supervised team project work	Supervised team project work	Supervised team project work	Supervised team project work	Supervised team project work	Supervised team project work	Supervised team project work	Supervised team project work	Supervised team project work
15:30 – 16:00										
16:00 – 16:30										
16:30 – 17:00										
17:00 – 17:30										
17:30 – 18:30										

DATE/TIME (MSC)	Session One 29.06.2021 TUESDAY	Session Two 30.06.2021 WEDNESDAY	Session Three 01.07.2021 THURSDAY	Session Four 02.07.2021 FRIDAY
14:00 – 15:10	<p>Sergey Mityagin, Ilya Yakimuk, Tihonova Olga, and Stanislav Sobolevsky Social network open data revealing for identification of citizens activities on urban environment objects.</p> <p>Rami Al-Naim and Yuriy Lytkin Review and comparison of prediction algorithms for the estimated time of arrival using geospatial transportation data.</p> <p>Anastasia Funkner, Liubov Elkhovskaya, Iuliia Lenivtceva, Michil Egorov and Aleksandr Kshenin Geographical Topic Modelling on Spatial Social Network Data.</p> <p>Alexandr Zamiralov, Timur Sohin and Nikolay Butakov Knowledge graph mining for realty domain using dependency parsing and QAT models.</p> <p>Aleksandr Antonov, Ivan Khodnenko and Sergei Kudinov Façade deterioration prediction with the use of machine learning methods, based on objective parameters and e-participation data</p> <p>Anastasiia Filatova and Denis Nasonov SeSAM: semi-automated semantic analysis method of urban areas' events with extreme levels of popularity based on public open data</p>	<p>Md. Kowsher, Md. Zahidul Islam Sanjid, Anik Tahabilder, Nusrat Jahan Prottasha, Md. Shihab Uddin, Md Arman Hossain and Md.Abdul Kader Jilani Deep Fusion of BiLSTM-ANN for Content Classification</p> <p>Lawan Mustapha Abdulrahman, Gital Abdulsalam Yau, Badamasi Ja'Afaru, Fatima Zambuk, Abubakar Ibrahim and Ismail Zahraddeen Yakubu, Abubakar Tafawa A review on deep learning with focus on deep recurrent neural network for electricity forecasting in residential building</p> <p>Irek Saitov, Anatoliy Surikov and Leonid Gorokhovatsky Analysis of the Relationship between the Users Personality Traits and the Images They Post on Social Media</p> <p>Ivo Wings, Rohan Nanda, and Kolawole Adebayo A Context-Aware Approach for Extracting Hard and Soft Skills</p> <p>Sreenivas Sremath Tirumala Exploring Neural Network Layers for Knowledge Discovery</p> <p>Vladislav Vlasenko and Marina Balakhontceva Implementation of Indoor Positioning Methods: a Smart Hospital Case</p>	<p>Maria Moskalenko, Maxim Skryabin, Michael Svintsov and Alexander Trifanov Computational Psychometric Approach for Assessing Mathematical Problem-Solving Skills</p> <p>Julia Borisova, Anastasia Aladina and Nikolay O. Nikitin Hybrid Modelling of Environmental Processes using Composite Models</p> <p>Anastasiia Timoshina, Elizaveta Stavina and Petr Chunaev, Forecasting the volume of mortgage lending with open Internet data in the period of noticeable changes in the Russian mortgage market</p> <p>Alexander Naumov, Ivan Moloshnikov, Alexey Serenko, Roman Rybka and Alexandr Sboev Baseline accuracies of forecasting COVID-19 cases in Russian regions on a year in retrospect using basic statistical and machine learning methods</p> <p>Mark Merezchnikov and Alexander Hvatov Multi-objective closed-form algebraic expressions discovery approach application to the synthetic time-series generation</p> <p>Nikita M. Krivosheev and Boris Ya. Steinberg Algorithm for Searching Minimum Inter-node Data Transfers</p> <p>Sergei Evgenievich Ivanov, Tatiana Zudilova, Andrey Televnoy and Lubov Nikolaevna Ivanova Transformation method for a nonlinear manipulator model</p> <p>Zoia Alexandrovna Meleshkova and Sergei Evgenievich Ivanov Application of Neural ODE with embedded hybrid method for robotic manipulator control</p>	<p>Fedor Dobrykh, Sergey Muravyov and Olga Ilyasova Ensemble Clustering Algorithm Development for Tabular Data by a Given Partition Quality Measure</p> <p>Anton Lysenko, Irina Deeva and Egor Shikov MVAESynth: a unified framework for multimodal data generation, modality restoration, and controlled generation</p> <p>Ekaterina Plesovskaya and Sergey Ivanov An Empirical Analysis of KDE-based Generative Models on Small Datasets</p> <p>Shreya Singhal, Naman Modi, Ved Dandekar and Dr. Sunil Mane Leveraging various Transformers Based Architectures for Truecasing</p> <p>Hernan Alar and Proceso Fernandez Classifying mosquito presence and genera using median and interquartile values from 26-filter wingbeat acoustic properties</p> <p>Vasily Kasilov, Pavel Drobintsev and Nikita Voinov High-performance genome sorting program</p> <p>Egor Zharko, Nikita Voinov and Igor Chernorutsky, Simulation modeling of technological preparation for single and small-scale production</p>
15:10 – 15:50	Q&A			

15:50 – 16:00	BREAK			
16:00 – 17:10	<p>Kseniia Nikolaeva, Liubov Elkhovskaya and Sergey Kovalchuk Patient measurements simulation and event processing in telemedicine systems</p> <p>Konstantin Egorov, Sergey Krivospichenko, Vibhash Yadav, Danila Parygin, and Alexey Finogeev Research methodology for quantitative and qualitative parameters of parking space use</p> <p>Tanzia Parvin and Mohammed Moshiul Hoque An Ensemble Technique to Classify Multi-Class Textual Emotion</p> <p>Adrita Barua, Omar Sharif and Mohammed Moshiul Hoque A Multi-class Sports News Categorization using Machine Learning Techniques: Resource Creation and Evaluation</p> <p>Sofia Grechishcheva, Iuliia Lenivtceva, Georgy Kopanitsa, and Dmitry Panfilov Filtering free-text medical data based on machine learning</p> <p>Valery Volokha and Ivan Derevitskii Offline evaluation of the recommender system initial user interview using estimation of the coverage of content characteristics</p>	<p>Natalia Khanzhina, Roman Lebedev and Anton Maltsev On realistic generation of new format license plate on vehicle images</p> <p>Kirill Kobyshev, Nikita Voinov and Igor Nikiforov Hybrid image recommendation algorithm combining content and collaborative filtering approaches</p> <p>Iana Polonskaia, Ilya Aliev and Nikolay Nikitin Automated Evolutionary Design of CNN Classifiers for Object Recognition on Satellite Images</p> <p>Sergey Sivolobov Human gait feature extraction method</p> <p>Ibraheem Barbahan, Vladimir Baikalov, and Andrey Filchenkov and Valeriy Vyatkin, Multi Agent Deep Reinforcement Learning Based Algorithm ForFast Generalization On Routing Problems</p> <p>Alexey Goloveshkin and Stanislav Mikhalkovich Using context-based code description for robust algorithmic binding to crosscutting concerns</p> <p>Md. Asif Iqbal, Omar Sharif, Mohammed Moshiul Hoque and Iqbal H. Sarkar Word Embedding based Textual Semantic Similarity Measure in Bengali</p>	<p>Yuri Bogomolov, Mingyi He, Devashish Khulbe and Stanislav Sobolevsky Impact of income on urban commute across major cities in US.</p> <p>Elizaveta Stavinova, Petr Chunaev and Klavdiya Bochenina Forecasting railway ticket dynamic price with search engine query open data</p> <p>Yuriy Lytkin and Elizaveta Stavinova The mathematically best way to spend your money: an algorithm for optimising the cashback profit</p> <p>Vladislava D. Nosova and Valentina Y. Guleva Purchasing patterns in luxury consumption: transitional transaction categories</p> <p>Egor Shikov, Danila Vaganov and Mariia Bardina, Predicting customer flow for the selected location based on transactional data</p> <p>Irina Zhukova, Iliia Derevitskii, Georgy Matveev, Tatiana Golikova and Alina Babenko Predictive Modeling for Decision Support in the Tasks of Selecting the Drug for Obesity Treatment</p> <p>Vladislav Pavlovskii, Iliia Derevitskii and Daria Savitskaya Probabilistic graphical models for finding optimal multipurpose multicomponent therapy</p> <p>Egor Ivanov and Andrey Karsakov Visual programming language for data visualization based on visual grammar</p>	<p>Irina Barabanova, Nikolay Nikitin and Pavel Vychuzhanin Sensitivity Analysis of the Composite Data-Driven Pipelines in the Automated Machine Learning</p> <p>Anna Bubnova, Irina Deeva and Anna Kalyuzhnaya MlxBN: library for learning Bayesian networks from mixed data</p> <p>Mayuresh Londhe Data Mining and Machine Learning approach for Air Quality Index Prediction</p> <p>Roseline Ogundokun, Joseph Awotunde, Peter Sadiku, Emmanuel Adeniyi, Moses Abiodun and Oladipo Dauda An Enhanced Intrusion Detection System using Particle Swarm Optimization Feature Extraction Technique</p> <p>Amit Sethi and Devika Kataria Analyzing Emergent Complexity in Particle Swarm Optimization using a Rolling Technique for Updating Hyperparameter Coefficients</p> <p>Kehinde Sotonwa, Michael Sotonwa, and Oluwashina Oyeniran, Evaluation of RNG and WXS Schemas on Interface Complexity Metric</p>
17:10 – 17:40	Q&A			