

XXVIII International Conference on Data Analytics and Management in Data Intensive Domains (DAMDID/RCDL 2026)

dedicated to the memory of A. N. Gorban

Preliminary Conference Program

20.10.2026 – 23.10.2026

Nizhny Novgorod, Lobachevsky State University of Nizhny Novgorod

Note for session chairs and authors: a full paper talk is 30 min. (25 min. for the talk, 5 min. for questions and answers); a short paper talk (marked **SHORT**) is 20 min. (15 min. for the talk, 5 min. for questions and answers). Please follow the timetable strictly.

Locations: Invited talks, Main hall (314) Sessions, Room A (229) Sessions, Room B (310)

Program at a Glance

Time	Room A (229)	Room B (310)
Tuesday, October 20th		
09:00–09:30	Opening of the Conference. A Memorial Talk on Alexander N. Gorban	
09:30–10:45	Invited talk: Alexander Ponomarenko. <i>Approximate Vector Search at Billion Scale</i>	
10:45–11:05	Coffee Break	
11:05–12:35	Invited talk: Alexey Neznanov. <i>Pillars and Foundations of Object-Attribute Data: A Journey from Philosophy to Visualization, Venturing into Physics, Mathematics, Logic, and Programming</i>	
12:35–13:35	Lunch	
13:35–15:05	S1. Information Extraction from Text I: Topic Modeling and Syntactic Analysis	13:35–15:05 S2. Machine Learning in Natural Sciences
15:05–15:35	Coffee Break	
15:35–16:55	S3. Information Extraction from Text II: Datasets	15:35–16:55 S4. Organization of Experiments and Analytical Workflows
16:55–17:10	Coffee Break	
17:10–18:40	S5. Speech and Signal Processing	17:10–18:30 S6. Recommender Systems and Scientific Knowledge Services
Wednesday, October 21st		
09:30–11:00	Invited talk: Ivan Tyukin. <i>Reliable, Adaptive, and Trustworthy Artificial Intelligence; mathematical foundations of artificial intelligence</i>	
11:00–11:30	Coffee Break	
11:30–13:30	S7. Applications of Large Language Models	11:30–13:30 S8. Stochastic Models and Optimization
13:30–14:30	Lunch	
14:30–16:10	S9. Large Language Models for Software Engineering	14:30–15:50 S10. Time Series Analysis and Forecasting
16:10–16:40	Coffee Break	
16:40–18:40	S11. Reliability of Neural Networks	16:40–18:40 S12. Educational Data Analysis
Thursday, October 22nd		
09:30–10:30	Invited talk: Vadim Turlapov. <i>Trusted AI Processing of Data Streams in Healthcare as an Example for Other Areas</i>	
10:30–11:00	Coffee Break	
11:00–12:30	S13. Biomedical Signal Analysis	11:00–12:30 S14. Information Security I: Threat Modeling and Vulnerability Detection
12:30–13:30	Lunch	
13:30–15:30	S15. Medical Imaging	13:30–15:30 S16. Information Security II: Security of AI Systems and Data Protection
15:30–16:00	Coffee Break	
14:00–16:30	Excursion to Botanic Garden	
17:00–20:00	Conference Banquet (TBA)	
Friday, October 23rd		
09:30–10:30	Invited talk: Maria Pruzhinskaya. <i>Astronomical Alert Brokers in the LSST Era</i>	
10:30–11:00	Coffee Break	
11:00–13:00	S17. Data Models and Database Management	11:00–12:50 S18. Data Analysis in Astronomy and Space Research I
13:00–14:00	Lunch	
14:00–15:50	S19. Research Data Infrastructures	14:00–15:50 S20. Data Analysis in Astronomy and Space Research II
15:50–16:20	Coffee Break	
16:20–18:10	Coordinating Committee Meeting	S21. Image Segmentation
18:10–18:30	Closing of the Conference	

TUESDAY, OCTOBER 20th

09:00–09:30	Opening of the Conference Main hall (314) • Online: https://my.mts-link.ru/j/unn/26807371939	
09:30–10:45	INVITED TALK Main hall (314) • Online: https://my.mts-link.ru/j/unn/26807371939 • Chair: Nikolai Zolotykh Alexander Ponomarenko. <i>Approximate Vector Search at Billion Scale</i>	
10:45–11:05	Coffee Break	
11:05–12:35	INVITED TALK Main hall (314) • Online: https://my.mts-link.ru/j/unn/26807371939 • Chair: Sergey Stupnikov Alexey Neznanov. <i>Pillars and Foundations of Object-Attribute Data: A Journey from Philosophy to Visualization, Venturing into Physics, Mathematics, Logic, and Programming</i>	
12:35–13:35	Lunch	
13:35–15:05	SESSION 1 Information Extraction from Text I: Topic Modeling and Syntactic Analysis Room A (229) • Online: https://my.mts-link.ru/j/unn/26741183986 Chair: Elena Sidorova 13:35 Alexander Sychev <i>Функциональная разметка терминов тематических моделей на основе векторных эмбедингов</i> 14:05 Artem Rostunov and Maksim Stankevich <i>Identifying Active Event Discussions and Topics through Social Media Analysis</i> 14:35 Драгош Карамела-Аждер and Елена Шамаева <i>Методы сравнения синтаксических деревьев зависимостей</i>	SESSION 2 Machine Learning in Natural Sciences Room B (310) • Online: https://my.mts-link.ru/j/unn/26807371939 Chair: Alexander Ponomarenko 13:35 Alexander Marukhin and Sergey Safonov <i>SINDy-Based Method for Inverse Reconstruction of Time-Dependent Coefficients in Nonlinear ODE Systems</i> 14:05 Ekaterina Smolina, Dmitry Rostov, Alexander Romanov, Andrey Eliasin, Vasily Kostin, Roman Ponomarev, Leonid Zhukov and Lev Smirnov <i>Machine Learning for Predicting Focal Characteristics of Lensed Optical Fibers</i> 14:35 Надежда Киселёва, Виктор Дударев, Олег Сенько, Александр Докукин, SHORT Андрей Столяренко and Юлиана Кузнецова <i>Особенности применения методов машинного обучения в неорганической химии</i>
15:05–15:35	Coffee Break	
15:35–16:55	SESSION 3 Information Extraction from Text II: Datasets Room A (229) • Online: https://my.mts-link.ru/j/unn/26741183986 Chair: Dmitry Shaposhnikov 15:35 Pavel Mamaev, Natalia Loukachevitch and Grigory Kovalev <i>Deep Re-annotation and Controlled Candidate Pools for Re-evaluating Ranking Models on MS MARCO</i> 16:05 Elena Bolshakova and Julia Mescheriakova <i>Extending Derivational Dataset with Multi-Root Words</i> 16:35 Elena Sidorova, Irina Akhmadeeva, Irina Kononenko, Alexey Sery and Yury SHORT Zagorulko <i>Constructing Multi-Level Datasets for Information Reliability Assessment in Popular Science Discourse</i>	SESSION 4 Organization of Experiments and Analytical Workflows Room B (310) • Online: https://my.mts-link.ru/j/unn/26807371939 Chair: Sergey Stupnikov 15:35 Dmitry Kovalev <i>Планирование виртуальных экспериментов с повторным использованием вычисленных фрагментов</i> 16:05 Ilya Derezhovskiy and Alexey Mitsyuk <i>Visualization of Decision-Making Processes under Uncertainty</i> 16:35 Nikita Ilin, Aleksey Artamonov and Mikhail Ulizko SHORT <i>From Static DAGs to Dynamic Computational Graphs: A New Paradigm for Orchestrating Analytical Processes in Data-Intensive Domains</i>

16:55–17:10	Coffee Break	
17:10–18:40	SESSION 5 Speech and Signal Processing Room A (229) • Online: https://my.mts-link.ru/j/unn/26741183986 Chair: Alexander Ponomarenko 17:10 Dmitrii Popov and Archil Maysuradze <i>Uncertainty-Aware Ensemble Pseudo-Labeling for Speaker Diarization</i> 17:40 Mikhail Vdovichenko and Rustam Azimov <i>Multilingual Text-to-Speech Model for Low-Resource Languages</i> 18:10 Victor Nozdrin, Denis Karchkov, Tatiana Levanova and Lev Smirnov SHORT <i>Generation of synthetic ECG of 5 main nosologies using WGAN</i>	SESSION 6 Recommender Systems and Scientific Knowledge Services Room B (310) • Online: https://my.mts-link.ru/j/unn/26807371939 Chair: Dmitry Kovalev 17:10 Alice Novikova and Dmitry Ignatov <i>Ranking-Aligned Contrastive Consistency Distillation for One-Step Diffusion-Based Sequential Recommendation</i> 17:40 Vadim Chunikhin, Andrey Khalov and Olga Ataeva <i>A Scientific Knowledge Recommender System for the SciLib Intelligent Information System</i> 18:10 Evgenii Malyh, Andrey Khalov and Olga Ataeva <i>An Ontological Approach to the Design and Validation of Microservice Interactions</i>

WEDNESDAY, OCTOBER 21st

09:30–11:00	INVITED TALK Main hall (314) • Online: https://my.mts-link.ru/j/unn/26807641973 • Chair: Nikolai Zolotikh Ivan Tyukin. <i>Reliable, Adaptive, and Trustworthy Artificial Intelligence; mathematical foundations of artificial intelligence</i>	
11:00–11:30	Coffee Break	
11:30–13:30	SESSION 7 Applications of Large Language Models Room A (229) • Online: https://my.mts-link.ru/j/unn/26741310735 Chair: Nikolay Skvortsov	SESSION 8 Stochastic Models and Optimization <i>dedicated to the memory of Professor Mikhail Fedotkin</i> Room B (310) • Online: https://my.mts-link.ru/j/unn/26807641973 Chair: Vyacheslav Kuvykin
	11:30 Bulat Latypov, Andrei Pavlov, Andrei Petrovski and Igor Kotenko <i>Automated Financial Intelligence Pipeline: LLM-Powered Extraction and Analysis of Russian Corporate Disclosures</i> 12:00 Dmitry Morozov and Aleksandr Vetrov <i>Beyond Root Matching: LLM-Based Identification of Russian Same-Root Word Pairs</i> 12:30 Sofia Maltseva and Konstantin Turalchuk SHORT <i>Research into Approaches to Using LLM and RAG to Improve Intelligent Assistants in the Field of Medicine</i> 12:50 Алёна Антипова and Елена Шамаева SHORT <i>Применение больших языковых моделей в задаче упрощения русскоязычных текстов</i> 13:10 Grigory Drozhashchikh and Valentin Malykh SHORT <i>LLM-Based Stance and Argument Classification for Russian</i>	11:30 Andrei V. Zorine 5 MIN <i>A Memorial Word on Professor Mikhail Fedotkin</i> 11:35 Valeria Kuznetsova and Elena Kuvykina <i>Investigation of the Conflict Flow Control System Using an Algorithm with an Informative Pedestrian Flow</i> 12:05 Varvara Kovaleva and Alexander Ponomarenko <i>A Benchmark Generator of Realistic Logistic Transport Networks with Nonlinear Edge Costs and Transshipment Capacities</i> 12:35 Alexander Ponomarenko and Iliya Antonov <i>Tuning Dispatch Thresholds for Fixed Last-Mile Routes: A Simulation-Based Pareto Analysis of a Production Policy</i> 13:05 Andrei V. Zorine SHORT <i>On estimating the shape of periodic intensity in a Poisson process</i>
13:30–14:30	Lunch	

14:30–16:10	SESSION 9 Large Language Models for Software Engineering Room A (229) • Online: https://my.mts-link.ru/j/unn/26741310735 Chair: Konstantin Turalchuk 14:30 Wang Zihan and Rustam Azimov <i>Graph-Orchestrated LLM Agents for Automated Configuration of Reproducible Python Execution Environments</i> 15:00 Artur Ziazetdinov, Vladimir Zunin and Pavel Pashentsev <i>Reproducible Pipeline for Evaluating RAG-Based Verilog RTL Generation</i> 15:30 Vadim Voevodkin SHORT <i>Call-Graph Augmented Three-Stage Pipeline for Repository-Level Code Search</i>	SESSION 10 Time Series Analysis and Forecasting Room B (310) • Online: https://my.mts-link.ru/j/unn/26807641973 Chair: Sergej Znamenskij 14:30 Vyacheslav Manevich <i>Метод тройной поправки (TCM) в задачах многошагового прогнозирования финансовых временных рядов</i> 15:00 Anton Voskresenskii, Gulnara Siraeva and Dmitry Kovalev <i>CL-Occam: Clustered-Local Forecasting with Per-Cluster Model Selection for Heterogeneous Time-Series Panels</i> 15:30 Irina Kudryashova SHORT <i>Forecasting Life Expectancy in Russia Using Socio-Economic and Health Indicators: Comparing Linear Regression, Principal Components, and Machine Learning Models</i> 15:50 Marwan Bouabidi, Dmitry I. Ignatov and Robiul Islam SHORT <i>Brain Activity Time Series Analysis with Neural Networks and Interpretable Machine Learning</i>
16:10–16:40	Coffee Break	
16:40–18:40	SESSION 11 Reliability of Neural Networks Room A (229) • Online: https://my.mts-link.ru/j/unn/26741310735 Chair: Alexander Ponomarenko 16:40 Ivan Mineev, Andrey Lebedev and Sergey Stasenko <i>Investigating Separation Methods in High-Dimensional Spaces for Image Classification Error Correction</i> 17:10 Sergei Vorobyov and Eugene Ilyushin <i>Scaling Neural Network Verification with Tensor Parallelism and Fully Sharded Data Parallelism</i> 17:40 Andrey Lebedev, Alina Lebedeva, Sofia Polevaya and Sergey Stasenko. SHORT <i>Post-hoc correction of errors in the RR interval classifier when transferring to data with extrasystolic distortions</i> 18:00 Andrey Kozachok, Anatoliy Bakaev, Aleksandr Kozachok and Artem Noev SHORT <i>Experimental Analysis of AutoML Platform Vulnerabilities in Environmental Monitoring Tasks and Risk Mitigation Strategies</i> 18:20 Нина Родикова and Борис Добров SHORT <i>Methods for Detecting Hallucinations in Large Language Models Summarization</i>	SESSION 12 Educational Data Analysis Room B (310) • Online: https://my.mts-link.ru/j/unn/26807641973 Chair: Konstantin Turalchuk 16:40 Sergei Gorshkov, Dmitry Ignatov and Julia Aleksandrova <i>Beyond Aggregation: Validating a Student Digital Profile with Repeated Split-Half Reliability and Multimodal Structural Analysis</i> 17:10 Ramil Khabibrakhmanov, Bulat Gizatullin, Olga Fedorova and Dmitry Polyakov <i>Comparative analysis of student representation methods for alumni-based retrieval and thesis topic suggestion</i> 17:40 Natalya Pustovalova and Tatiana Avdeenko SHORT <i>Psychometric-Based Learner Profiling for Educational Personalization Using PCA and Cluster Analysis</i> 18:00 Alexander Varnavsky SHORT <i>Ontological Model of the Didactic Paradox “Success Without Value” for the Sequence of Educational Tools</i>

THURSDAY, OCTOBER 22nd

09:30–10:30	INVITED TALK Main hall (314) • Online: https://my.mts-link.ru/j/unn/26807840512 • Chair: Alexander Ponomarenko Vadim Turlapov. <i>Trusted AI Processing of Data Streams in Healthcare as an Example for Other Areas</i>	
10:30–11:00	Coffee Break	
11:00–12:30	SESSION 13 Biomedical Signal Analysis Room A (229) • Online: https://my.mts-link.ru/j/unn/26741548443 Chair: Dmitry Kovalev	SESSION 14 Information Security I: Threat Modeling and Vulnerability Detection Room B (310) • Online: https://my.mts-link.ru/j/unn/26807840512 Chair: Andrey Kozachok
	11:00 Andrey Vasenkov, Denis Karchkov, Tatiana Levanova and Lev Smirnov <i>Exact ECG segmentation using deep learning approach</i> 11:30 Aleksandr Smyshlaev, Nikolay Gromov, Albina Lebedeva, Artem Sharkov, Anna Grebenyukova, Lev Smirnov, Tatiana Levanova and Alexander Pisarchik <i>Sleep Spindle Segmentation using Hypergraph Learning</i> 12:00 Yulia Veselova, Elizaveta Sibireva, Nikolay Gromov, Artem Sharkov, Anna Grebenyukova, Albina Lebedeva, Tatiana Levanova and Lev Smirnov <i>Active learning approach for EEG segmentation</i>	11:00 Igor Kotenko, Igor Saenko and Evgenii Mityakov <i>Hybrid Automaton Model of a Digital Twin for Simulating Attack Scenarios against Critical Information Infrastructure Objects</i> 11:30 Nikolai Kalinin and Nikolay Skvortsov <i>An Ontology-Based Knowledge Infrastructure for Cyber Threat Response</i> 12:00 Artem Antonov, Vladislav Burovin and Vadim Voevodkin <i>GNN-ReGVD+: A Vulnerability Detection Pipeline for C/C++ Code with Execution-Based Verification</i>
12:30–13:30	Lunch	

13:30–15:30	SESSION 15 Medical Imaging Room A (229) • Online: https://my.mts-link.ru/j/unn/26741548443 Chair: Vadim Turlapov	SESSION 16 Information Security II: Security of AI Systems and Data Protection Room B (310) • Online: https://my.mts-link.ru/j/unn/26807840512 Chair: Nikolay Skvortsov
	13:30 Ljubov Lavrova and Konstantin Turalchuk <i>Development of a methodology for combining significance maps obtained by different interpretation methods in the context of medical image analysis</i> 14:00 Aleksei Samarin, Egor Kotenko, Anastasia Mamaeva, Aleksei Toropov, Artem Nazarenko, Alexander Savelev, Elena Mikhailova, Dmitry Nazarenko, Julia Afonina and Valentin Malykh <i>Structured Pruning for Efficient Ultra-Early Ischemic Stroke Lesion Segmentation in Non-Contrast Brain CT</i> 14:30 Yelena Grevtseva, Mikhail Melnikov, Oksana Kabenova and Almira Kustubayeva SHORT <i>Воксельный анализ возраста мозга: 3D-свёрточная нейросеть на картах GM и WM</i> 14:50 Руслан Махнев, Екатерина Пройдакова and Ксения Петрова SHORT <i>Методология количественного анализа ОКТ-изображений кожи при атрофических заболеваниях на основе кластеризации K-средних</i> 15:10 Yaroslav Somov and Ekaterina Proydakova SHORT <i>A Comparative Study of UNet and UNet++ for Skin Layer Segmentation in 2D Optical Coherence Tomography</i>	13:30 Bulat Nutfullin, Vladimir Evgrafov and Dmitry Namiot <i>When the Defense Writes the Refusal: Auditing Keyword-Scored Evaluation of Inference-Time Defenses for Multimodal Large Language Models</i> 14:00 Hailin Liu, Eugene Ilyushin, Jie Ni and Min Zhu <i>SafeAgent: A Runtime Protection Architecture for Agentic Systems</i> 14:30 Andrey Kozachok, Anatoliy Bakaev, Aleksandr Kozachok and Artem Noev <i>Comparative Analysis of Machine Learning Algorithm Robustness Against Adversarial Attacks in Air Quality Forecasting Tasks</i> 15:00 Maxim Egorov and Dmitry Namiot <i>A new approach to detecting sensitive data in cloud environments</i>
15:30–16:00	Coffee Break	
14:00–16:30	Excursion to Botanic Garden	
17:00–20:00	Conference Banquet (TBA)	

FRIDAY, OCTOBER 23rd

09:30–10:30	INVITED TALK Main hall (314) • Online: https://my.mts-link.ru/j/unn/26808067898 • Chair: Sergey Stupnikov Maria Pruzhinskaya. <i>Astronomical Alert Brokers in the LSST Era</i>	
10:30–11:00	Coffee Break	
11:00–13:00	SESSION 17 Data Models and Database Management Room A (229) • Online: https://my.mts-link.ru/j/unn/26741668438 Chair: Sergey Stupnikov	SESSION 18 Data Analysis in Astronomy and Space Research I Room B (310) • Online: https://my.mts-link.ru/j/unn/26808067898 Chair: Alexey Pozanenko
	11:00 Vladislav Sukhomlinov and Oleg Sabinin <i>Application of Methods for Determining Stratum Boundaries to Improve Cardinality Estimation in Query Execution Plans for Numeric Columns</i> 11:30 Evgenii Dmitriev, Roman Samarev and Sergey Stupnikov <i>Динамическое совместное размещение фрагментов таблиц в распределённых СУБД с учётом графа соединений схемы базы данных и координированным разделением фрагментов</i> 12:00 Alexander Solovyev <i>Конструктор информационных систем как средство создания структур данных, независимых от реализации модели данных</i> 12:30 Sergej Znamenskij SHORT <i>Simplifying editable markup for semi-structured data</i>	11:00 Artur Zhemchuzhnikov, Artem Prosvetov, Aleksander Andreev, Daniil Aleksandrov, Vladimir Nazarov, Marina Evdokimova, Mikhail Mogilevsky, Dmitry Chugunin and Alexander Chernyshov <i>Automatic Detection of Whistlers in NVK-2 Data Onboard the Ionosphere-M Satellites Based on a Convolutional Neural Network</i> 11:30 Eugene Shekotihin, Alexei Pozanenko, Nicolay Pankov, Alexander Moskvitin, Alina Volnova and Pavel Minaev <i>Sky inpainting and subtraction with the Brownian Bridge Diffusion Model</i> 12:00 Arkady Mkrtchyan, Alexey Pozanenko and Pavel Minaev <i>Reconstruction of Compton events in segmented scintillation polarimeters at high gamma-ray fluxes</i> 12:30 Vladimir Samodurov, Alexey Pozanenko, M. O. Toropov, E. A. Isaev and A. A. Gorbunov <i>Database of many years survey observations of the LPI BSA radio telescope at a frequency of 110 MHz: creation, maintenance, and methods of use</i>
13:00–14:00	Lunch	

14:00–15:50	SESSION 19 Research Data Infrastructures Room A (229) • Online: https://my.mts-link.ru/j/unn/26741668438 Chair: Sergey Stupnikov 14:00 Nikolay Skvortsov <i>Формирование планов управления данными на основе моделей требований</i> 14:30 Nikolai Kalinin and Nikolay Skvortsov <i>A Reference Architecture for Semantic Layers in FAIR Research Infrastructures</i> 15:00 Vladimir Korenkov, Andrey Kondratyev and Aleksey Bondyakov <i>Multifactor Author Identification in a Digital Repository</i> 15:30 Виктор Дударев and Надежда Киселёва SHORT <i>Практический подход к публикации исследовательских данных в соответствии с принципами FAIR в области материаловедения с использованием MatInf RDMS</i>	SESSION 20 Data Analysis in Astronomy and Space Research II Room B (310) • Online: https://my.mts-link.ru/j/unn/26808067898 Chair: Alina Volnova 14:00 Мария Ефремова, Алексей Позаненко, Николай Панков, Алина Вольнова and Александр Москвитин <i>Методика поиска оптического компонента GW190425 в данных обзора ZTF</i> 14:30 Art Prosvetov, Sergey Grebenev, Sergey Belkin and Alexey Pozanenko <i>Correlations and Classification in Light Curves of Type Ic Supernovae with GRB Association</i> 15:00 Ivan Chelovekov <i>Search for Hard X-ray Bursts from SGR 1935+2154 in the RSDC Archive of the INTEGRAL Orbital Observatory</i> 15:30 Maxim Pupkov, Art Prosvetov, Vasilii Marchuk, Alexander Govorov, Olga Yushkova, Alexander Andreev and Vladimir Nazarov SHORT <i>3D Lunar Surface Recovery from Generated Satellite Views via Deep Learning</i>
15:50–16:20	Coffee Break	
16:20–18:10	MEETING Coordinating Committee Meeting Room A (229)	SESSION 21 Image Segmentation Room B (310) • Online: https://my.mts-link.ru/j/unn/26808067898 Chair: Vadim Turlapov 16:20 Aleksei Samarin, Anastasia Mamaeva, Egor Kotenko, Aleksei Toropov, Alexander Savelev, Artem Nazarenko, Elena Mikhailova, Dmitry Nazarenko, Julia Afonina and Valentin Malykh <i>Task-Aware Structured Pruning for Infrared Iris and Pupil Segmentation</i> 16:50 Aleksei Samarin, Anastasia Mamaeva, Egor Kotenko, Aleksei Toropov, Alexander Savelev, Artem Nazarenko, Elena Mikhailova, Dmitry Nazarenko, Julia Afonina and Valentin Malykh <i>Foreground-Aware Model Compression for Endoscopic Polyp Analysis</i> 17:20 Pavel Arkhipov, Sergey Philippskiy and Maxim Tsukanov <i>Метод оценки нейросетевых моделей для сегментации фона аэрофотоснимков с помощью перцептивных метрик</i> 17:50 Valeriy Leonov, Alexander Meshcheryakov and Alexandr Kashnitskii SHORT <i>Neural-Network-Based Land-Use Mapping of Moscow Region from Sentinel-2 and Multi-Source Labels</i>
18:10–18:30	Closing of the Conference Main hall (314) • Online: https://my.mts-link.ru/j/unn/26808067898	

Index of Accepted Papers

Ordered alphabetically by title. F – full paper (30 min.), S – short paper (20 min.).

Type	Authors	Title	Session, day, time
S	Maxim Pupkov, Art Prosvetov, Vasilii Marchuk, Alexander Govorov, Olga Yushkova, Alexander Andreev and Vladimir Nazarov <i>Space Research Institute; IKI Russian Academy of Science; Kotelnikov Institute of Radioengineering and Electronics</i>	3D Lunar Surface Recovery from Generated Satellite Views via Deep Learning	S20, Fri 23 Oct, 15:30
F	Varvara Kovaleva and Alexander Ponomarenko <i>National Research University Higher School of Economics</i>	A Benchmark Generator of Realistic Logistic Transport Networks with Nonlinear Edge Costs and Transshipment Capacities	S8, Wed 21 Oct, 12:05
S	Yaroslav Somov and Ekaterina Proydakova <i>Nizhny Novgorod State University named after N.I. Lobachevsky</i>	A Comparative Study of UNet and UNet++ for Skin Layer Segmentation in 2D Optical Coherence Tomography	S15, Thu 22 Oct, 15:10
F	Maxim Egorov and Dmitry Namiot <i>Lomonosov Moscow State University</i>	A new approach to detecting sensitive data in cloud environments	S16, Thu 22 Oct, 15:00
F	Nikolai Kalinin and Nikolay Skvortsov <i>FRC CSC RAS; Federal Research Center Computer Science and Control (FRC CSC), RAS</i>	A Reference Architecture for Semantic Layers in FAIR Research Infrastructures	S19, Fri 23 Oct, 14:30
F	Vadim Chunikhin, Andrey Khalov and Olga Ataeva <i>Witte Moscow University; Moscow Institute of Physics and Technology (National Research University); Federal Research Center "Computer Science and Control" of the Russian Academy of Sciences (FRC CSC RAS)</i>	A Scientific Knowledge Recommender System for the SciLib Intelligent Information System	S6, Tue 20 Oct, 17:40
F	Yulia Veselova, Elizaveta Sibireva, Nikolay Gromov, Artem Sharkov, Anna Grebenyukova, Albina Lebedeva, Tatiana Levanova and Lev Smirnov <i>Lobachevsky University</i>	Active learning approach for EEG segmentation	S13, Thu 22 Oct, 12:00
F	Evgenii Malyh, Andrey Khalov and Olga Ataeva <i>Witte Moscow University; Moscow Institute of Physics and Technology (National Research University); Federal Research Center "Computer Science and Control" of the Russian Academy of Sciences (FRC CSC RAS)</i>	An Ontological Approach to the Design and Validation of Microservice Interactions	S6, Tue 20 Oct, 18:10
F	Nikolai Kalinin and Nikolay Skvortsov <i>Federal Research Center Computer Science and Control (FRC CSC), RAS</i>	An Ontology-Based Knowledge Infrastructure for Cyber Threat Response	S14, Thu 22 Oct, 11:30
F	Vladislav Sukhomlinov and Oleg Sabinin <i>Peter the Great St. Petersburg Polytechnic University</i>	Application of Methods for Determining Stratum Boundaries to Improve Cardinality Estimation in Query Execution Plans for Numeric Columns	S17, Fri 23 Oct, 11:00
F	Bulat Latypov, Andrei Pavlov, Andrei Petrovski and Igor Kotenko <i>Autonomous Non-Profit Organization of Higher Education «Innopolis University»; St. Petersburg Federal Research Center of the Russian Academy of Sciences</i>	Automated Financial Intelligence Pipeline: LLM-Powered Extraction and Analysis of Russian Corporate Disclosures	S7, Wed 21 Oct, 11:30
F	Artur Zhemchuzhnikov, Artem Prosvetov, Aleksander Andreev, Daniil Aleksandrov, Vladimir Nazarov, Marina Evdokimova, Mikhail Mogilevsky, Dmitry Chugunin and Alexander Chernyshov <i>Space Research Institute of the Russian Academy of Sciences</i>	Automatic Detection of Whistlers in NVK-2 Data Onboard the Ionosphere-M Satellites Based on a Convolutional Neural Network	S18, Fri 23 Oct, 11:00
F	Sergei Gorshkov, Dmitry Ignatov and Julia Aleksandrova <i>Higher School of Economics; Tomsk State University</i>	Beyond Aggregation: Validating a Student Digital Profile with Repeated Split-Half Reliability and Multimodal Structural Analysis	S12, Wed 21 Oct, 16:40
F	Dmitry Morozov and Aleksandr Vetrov <i>Novosibirsk State University, Russian National Corpus; Novosibirsk State University</i>	Beyond Root Matching: LLM-Based Identification of Russian Same-Root Word Pairs	S7, Wed 21 Oct, 12:00
S	Marwan Bouabidi, Dmitry I. Ignatov and Robiul Islam <i>HSE University; University of Information Technology and Sciences (UITS)</i>	Brain Activity Time Series Analysis with Neural Networks and Interpretable Machine Learning	S10, Wed 21 Oct, 15:50

Type	Authors	Title	Session, day, time
S	Vadim Voevodkin <i>HSE</i>	Call-Graph Augmented Three-Stage Pipeline for Repository-Level Code Search	S9, Wed 21 Oct, 15:30
F	Anton Voskresenskii, Gulnara Siraeva and Dmitry Kovalev <i>ITMO; FRC CSC</i>	CL-Occam: Clustered-Local Forecasting with Per-Cluster Model Selection for Heterogeneous Time-Series Panels	S10, Wed 21 Oct, 15:00
F	Andrey Kozachok, Anatoliy Bakaev, Aleksandr Kozachok and Artem Noev <i>RTU MIREA</i>	Comparative Analysis of Machine Learning Algorithm Robustness Against Adversarial Attacks in Air Quality Forecasting Tasks	S16, Thu 22 Oct, 14:30
F	Ramil Khabibrakhmanov, Bulat Gizatullin, Olga Fedorova and Dmitry Polyakov <i>University of management TISBI; Kazan Federal University</i>	Comparative analysis of student representation methods for alumni-based retrieval and thesis topic suggestion	S12, Wed 21 Oct, 17:10
S	Elena Sidorova, Irina Akhmadeeva, Irina Kononenko, Alexey Sery and Yury Zagorulko <i>A.P. Ershov Institute of Informatics Systems; A.P. Ershov Institute of Informatics Systems, Siberian Branch of the Russian Academy of Sciences</i>	Constructing Multi-Level Datasets for Information Reliability Assessment in Popular Science Discourse	S3, Tue 20 Oct, 16:35
F	Art Prosvetov, Sergey Grebenev, Sergey Belkin and Alexey Pozanenko <i>IKI Russian Academy of Science; SPACE RESEARCH INSTITUTE RUSSIAN ACADEMY OF SCIENCES</i>	Correlations and Classification in Light Curves of Type Ic Supernovae with GRB Association	S20, Fri 23 Oct, 14:30
F	Vladimir Samodurov, Alexey Pozanenko, M. O. Toropov, E. A. Isaev and A. A. Gorbunov <i>P.N. Lebedev Physical Institute of the Russian Academy of Sciences, ASC, Pushchino Radio Astronomy Observatory</i>	Database of many years survey observations of the LPI BSA radio telescope at a frequency of 110 MHz: creation, maintenance, and methods of use	S18, Fri 23 Oct, 12:30
F	Pavel Mamaev, Natalia Loukachevitch and Grigory Kovalev <i>Lomonosov Moscow State University</i>	Deep Re-annotation and Controlled Candidate Pools for Re-evaluating Ranking Models on MS MARCO	S3, Tue 20 Oct, 15:35
F	Ljubov Lavrova and Konstantin Turalchuk <i>Peter the Great St. Petersburg Polytechnic University</i>	Development of a methodology for combining significance maps obtained by different interpretation methods in the context of medical image analysis	S15, Thu 22 Oct, 13:30
F	Andrey Vasenkov, Denis Karchkov, Tatiana Levanova and Lev Smirnov <i>Lobachevsky University</i>	Exact ECG segmentation using deep learning approach	S13, Thu 22 Oct, 11:00
S	Andrey Kozachok, Anatoliy Bakaev, Aleksandr Kozachok and Artem Noev <i>RTU MIREA</i>	Experimental Analysis of AutoML Platform Vulnerabilities in Environmental Monitoring Tasks and Risk Mitigation Strategies	S11, Wed 21 Oct, 18:00
F	Elena Bolshakova and Julia Mescheriakova <i>Lomonosov Moscow State University</i>	Extending Derivational Dataset with Multi-Root Words	S3, Tue 20 Oct, 16:05
S	Irina Kudryashova <i>Lobachevsky State University of Nizhny Novgorod</i>	Forecasting Life Expectancy in Russia Using Socio-Economic and Health Indicators: Comparing Linear Regression, Principal Components, and Machine Learning Models	S10, Wed 21 Oct, 15:30
F	Aleksei Samarin, Anastasia Mamaeva, Egor Kotenko, Aleksei Toropov, Alexander Savelev, Artem Nazarenko, Elena Mikhailova, Dmitry Nazarenko, Julia Afonina and Valentin Malykh <i>ITMO University</i>	Foreground-Aware Model Compression for Endoscopic Polyp Analysis	S21, Fri 23 Oct, 16:50
S	Nikita Ilin, Aleksey Artamonov and Mikhail Ulizko <i>National Research Nuclear University "MEPhI"</i>	From Static DAGs to Dynamic Computational Graphs: A New Paradigm for Orchestrating Analytical Processes in Data-Intensive Domains	S4, Tue 20 Oct, 16:35
S	Victor Nozdrin, Denis Karchkov, Tatiana Levanova and Lev Smirnov <i>Lobachevsky University</i>	Generation of synthetic ECG of 5 main nosologies using WGAN	S5, Tue 20 Oct, 18:10
F	Artem Antonov, Vladislav Burovin and Vadim Voevodkin <i>NRU HSE</i>	GNN-ReGVD+: A Vulnerability Detection Pipeline for C/C++ Code with Execution-Based Verification	S14, Thu 22 Oct, 12:00
F	Wang Zihan and Rustam Azimov <i>Saint-Petersburg State University</i>	Graph-Orchestrated LLM Agents for Automated Configuration of Reproducible Python Execution Environments	S9, Wed 21 Oct, 14:30
F	Igor Kotenko, Igor Saenko and Evgenii Mityakov <i>high</i>	Hybrid Automaton Model of a Digital Twin for Simulating Attack Scenarios against Critical Information Infrastructure Objects	S14, Thu 22 Oct, 11:00

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F	Artem Rostunov and Maksim Stankevich <i>Federal Research Center "Computer Science and Control" of the Russian Academy of Sciences</i>	Identifying Active Event Discussions and Topics through Social Media Analysis	S1, Tue 20 Oct, 14:05
F	Ivan Mineev, Andrey Lebedev and Sergey Stasenko <i>Lobachevsky State University of Nizhny Novgorod; Lobachevsky State University of Nizhni Novgorod</i>	Investigating Separation Methods in High-Dimensional Spaces for Image Classification Error Correction	S11, Wed 21 Oct, 16:40
F	Valeria Kuznetsova and Elena Kuvykina <i>Lobachevsky National Research Nizhny Novgorod State University</i>	Investigation of the Conflict Flow Control System Using an Algorithm with an Informative Pedestrian Flow	S8, Wed 21 Oct, 11:35
S	Grigory Drozhashchikh and Valentin Malykh <i>ITMO university</i>	LLM-Based Stance and Argument Classification for Russian	S7, Wed 21 Oct, 13:10
F	Ekaterina Smolina, Dmitry Rostov, Alexander Romanov, Andrey Eliasin, Vasily Kostin, Roman Ponomarev, Leonid Zhukov and Lev Smirnov <i>Department of Control Theory, Lobachevsky State University of Nizhny Novgorod; Integrated Photonics Laboratory, Perm State University</i>	Machine Learning for Predicting Focal Characteristics of Lensed Optical Fibers	S2, Tue 20 Oct, 14:05
S	Нина Родикова and Борис Добров <i>Moscow State University</i>	Methods for Detecting Hallucinations in Large Language Models Summarization	S11, Wed 21 Oct, 18:20
F	Vladimir Korenkov, Andrey Kondratyev and Aleksey Bondyakov <i>Joint Institute for Nuclear Research</i>	Multifactor Author Identification in a Digital Repository	S19, Fri 23 Oct, 15:00
F	Mikhail Vdovichenko and Rustam Azimov <i>Higher School of Digital Culture, ITMO University, 197101 St. Petersburg, Russia</i>	Multilingual Text-to-Speech Model for Low-Resource Languages	S5, Tue 20 Oct, 17:40
S	Valeriy Leonov, Alexander Meshcheryakov and Alexandr Kashnitskii <i>Space Research Institute of Russian Academy of Sciences (IKI RAS)</i>	Neural-Network-Based Land-Use Mapping of Moscow Region from Sentinel-2 and Multi-Source Labels	S21, Fri 23 Oct, 17:50
S	Andrei V. Zorine <i>N.I. Lobachevsky State University of Nizhni Novgorod</i>	On estimating the shape of periodic intensity in a Poisson process	S8, Wed 21 Oct, 13:05
S	Alexander Varnavsky <i>National Research University Higher School of Economics</i>	Ontological Model of the Didactic Paradox "Success Without Value" for the Sequence of Educational Tools	S12, Wed 21 Oct, 18:00
S	Andrey Lebedev, Alina Lebedeva, Sofia Polevaya and Sergey Stasenko <i>Lobachevsky State University of Nizhny Novgorod; Lobachevsky State University of Nizhni Novgorod</i>	Post-hoc correction of errors in the RR interval classifier when transferring to data with extrasystolic distortions	S11, Wed 21 Oct, 17:40
S	Natalya Pustovalova and Tatiana Avdeenko <i>Novosibirsk State Technical University; Novosibirsk State Technical University</i>	Psychometric-Based Learner Profiling for Educational Personalization Using PCA and Cluster Analysis	S12, Wed 21 Oct, 17:40
F	Alice Novikova and Dmitry Ignatov <i>National Research University Higher School of Economics, Faculty of Computer Science</i>	Ranking-Aligned Contrastive Consistency Distillation for One-Step Diffusion-Based Sequential Recommendation	S6, Tue 20 Oct, 17:10
F	Arkady Mkrtchyan, Alexey Pozanenko and Pavel Minaev <i>Space Research Institute of the Russian Academy of Sciences</i>	Reconstruction of compton events in segmented scintillation polarimeters at high gamma-ray fluxes	S18, Fri 23 Oct, 12:00
F	Artur Ziazetdinov, Vladimir Zunin and Pavel Pashentsev <i>HSE University</i>	Reproducible Pipeline for Evaluating RAG-Based Verilog RTL Generation	S9, Wed 21 Oct, 15:00
S	Sofia Maltseva and Konstantin Turalchuk <i>Saint Petersburg Electrotechnical University "LETI"; Peter the Great St.Petersburg Polytechnic University (SPbPU)</i>	Research into Approaches to Using LLM and RAG to Improve Intelligent Assistants in the Field of Medicine	S7, Wed 21 Oct, 12:30
F	Hailin Liu, Eugene Ilyushin, Jie Ni and Min Zhu <i>Lomonosov Moscow State University; Lomonosov Moscow State University, Central University</i>	SafeAgent: A Runtime Protection Architecture for Agentic Systems	S16, Thu 22 Oct, 14:00
F	Sergei Vorobyov and Eugene Ilyushin <i>Lomonosov Moscow State University; Lomonosov Moscow State University, Central University</i>	Scaling Neural Network Verification with Tensor Parallelism and Fully Sharded Data Parallelism	S11, Wed 21 Oct, 17:10

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F	Ivan Chelovekov <i>Space Research Institute of the Russian Academy of Sciences</i>	Search for Hard X-ray Bursts from SGR 1935+2154 in the RSDC Archive of the INTEGRAL Orbital Observatory	S20, Fri 23 Oct, 15:00
S	Sergej Znamenskij <i>Ailamazyan Program Systems Institute of RAS</i>	Simplifying editable markup for semi-structured data	S17, Fri 23 Oct, 12:30
F	Alexander Marukhin and Sergey Safonov <i>Skolkovo Institute of Science and Technology (Skoltech)</i>	SINDy-Based Method for Inverse Reconstruction of Time-Dependent Coefficients in Nonlinear ODE Systems	S2, Tue 20 Oct, 13:35
F	Eugene Shekotiin, Alexei Pozanenko, Nicolay Pankov, Alexander Moskvitin, Alina Volnova and Pavel Minaev <i>Space Research Institute, RAS; Special Astrophysical Observatory, RAS</i>	Sky inpainting and subtraction with the Brownian Bridge Diffusion Model	S18, Fri 23 Oct, 11:30
F	Aleksandr Smyshlaev, Nikolay Gromov, Albina Lebedeva, Artem Sharkov, Anna Grebenyukova, Lev Smirnov, Tatiana Levanova and Alexander Pisarchik <i>AI Research Center, Lobachevsky University, Russia; AI Research Center, Lobachevsky University; Privozhsky Research Medical University, Russia; AI Research Center, Lobachevsky University; Veltischev Institute, Pirogov RNRMU; Genomed Ltd, Russia; Lobachevsky University; Federal Center of Brain Research and Neurotechnologies; Genomed Ltd, Russia; Center for Biomedical Technology, Universidad Politecnica de Madrid, Spain</i>	Sleep Spindle Segmentation using Hypergraph Learning	S13, Thu 22 Oct, 11:30
F	Aleksei Samarin, Egor Kotenko, Anastasia Mamaeva, Aleksei Toropov, Artem Nazarenko, Alexander Savelev, Elena Mikhailova, Dmitry Nazarenko, Julia Afonina and Valentin Malykh <i>ITMO University</i>	Structured Pruning for Efficient Ultra-Early Ischemic Stroke Lesion Segmentation in Non-Contrast Brain CT	S15, Thu 22 Oct, 14:00
F	Aleksei Samarin, Anastasia Mamaeva, Egor Kotenko, Aleksei Toropov, Alexander Savelev, Artem Nazarenko, Elena Mikhailova, Dmitry Nazarenko, Julia Afonina and Valentin Malykh <i>ITMO University</i>	Task-Aware Structured Pruning for Infrared Iris and Pupil Segmentation	S21, Fri 23 Oct, 16:20
F	Alexander Ponomarenko and Iliya Antonov <i>National Research University Higher School of Economics</i>	Tuning Dispatch Thresholds for Fixed Last-Mile Routes: A Simulation-Based Pareto Analysis of a Production Policy	S8, Wed 21 Oct, 12:35
F	Dmitrii Popov and Archil Maysuradze <i>Lomonosov MSU</i>	Uncertainty-Aware Ensemble Pseudo-Labeling for Speaker Diarization	S5, Tue 20 Oct, 17:10
F	Ilya Derezovskiy and Alexey Mitsyuk <i>Faculty of Computer Science National Research University Higher School of Economics; Faculty of Computer Science HSE University</i>	Visualization of Decision-Making Processes under Uncertainty	S4, Tue 20 Oct, 16:05
F	Bulat Nutfullin, Vladimir Evgrafov and Dmitry Namiot <i>Lomonosov Moscow State University</i>	When the Defense Writes the Refusal: Auditing Keyword-Scored Evaluation of Inference-Time Defenses for Multimodal Large Language Models	S16, Thu 22 Oct, 13:30
S	Yelena Grevtseva, Mikhail Melnikov, Oksana Kabenova and Almira Kustubayeva <i>Al-Farabi Kazakh National University</i>	Воксельный анализ возраста мозга: 3D-свёрточная нейросеть на картах GM и WM	S15, Thu 22 Oct, 14:30
F	Evgenii Dmitriev, Roman Samarev and Sergey Stupnikov <i>Lomonosov Moscow State University; IP Samarev R.S.; Federal Research Center "Computer Sciences and Control", Russian Academy of Sciences</i>	Динамическое совместное размещение фрагментов таблиц в распределённых СУБД с учётом графа соединений схемы базы данных и координированным разделением фрагментов	S17, Fri 23 Oct, 11:30
F	Alexander Solovyev <i>FRC CSC RAS</i>	Конструктор информационных систем как средство создания структур данных, независимых от реализации модели данных	S17, Fri 23 Oct, 12:00
F	Pavel Arkhipov, Sergey Philippski and Maxim Tsukanov <i>Federal Research Center "Computer Science and Control" of the Russian Academy of Sciences; Federal Research Center "Computer Science and Control" of the Russian Academy of Sciences</i>	Метод оценки нейросетевых моделей для сегментации фона аэрофотоснимков с помощью перцептивных метрик	S21, Fri 23 Oct, 17:20
F	Vyacheslav Manevich <i>Higher School of Economics</i>	Метод тройной поправки (TCM) в задачах многошагового прогнозирования финансовых временных рядов	S10, Wed 21 Oct, 14:30

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F	Мария Ефремова, Алексей Позаненко, Николай Панков, Алина Вольнова and Александр Москвитин <i>Национальный исследовательский университет «Высшая школа экономики»; Институт космических исследований РАН; Специальная астрофизическая обсерватория РАН</i>	Методика поиска оптического компонента GW190425 в данных обзора ZTF	S20, Fri 23 Oct, 14:00
S	Руслан Махнев, Екатерина Пройдакова and Ксения Петрова <i>Национальный исследовательский Нижегородский государственный университет им. Н.И. Лобачевского</i>	Методология количественного анализа ОКТ-изображений кожи при атрофических заболеваниях на основе кластеризации К-средних	S15, Thu 22 Oct, 14:50
F	Драгош Карамела-Аждер and Елена Шамаева <i>МГУ имени М.В. Ломоносова; МГУ имени М.В. Ломоносова</i>	Методы сравнения синтаксических деревьев зависимостей	S1, Tue 20 Oct, 14:35
S	Надежда Киселёва, Виктор Дударев, Олег Сенько, Александр Докукин, Андрей Столяренко and Юлия Кузнецова <i>Институт металлургии и материаловедения им. А. А. Байкова Российской академии наук; Ruhr University Bochum; ФИЦ «Информатика и управление» РАН; Институт металлургии и материаловедения им. А. А. Байкова РАН</i>	Особенности применения методов машинного обучения в неорганической химии	S2, Tue 20 Oct, 14:35
F	Dmitry Kovalev <i>FRCCSC RAS</i>	Планирование виртуальных экспериментов с повторным использованием вычисленных фрагментов	S4, Tue 20 Oct, 15:35
S	Виктор Дударев and Надежда Киселёва <i>Ruhr University Bochum; Институт металлургии и материаловедения им. А. А. Байкова Российской академии наук</i>	Практический подход к публикации исследовательских данных в соответствии с принципами FAIR в области материаловедения с использованием MatInf RDMS	S19, Fri 23 Oct, 15:30
S	Алёна Антипова and Елена Шамаева <i>МГУ имени М.В. Ломоносова; МГУ имени М.В. Ломоносова</i>	Применение больших языковых моделей в задаче упрощения русскоязычных текстов	S7, Wed 21 Oct, 12:50
F	Nikolay Skvortsov <i>FRC CSC RAS</i>	Формирование планов управления данными на основе моделей требований	S19, Fri 23 Oct, 14:00
F	Alexander Sychev <i>Voronezh State University</i>	Функциональная разметка терминов тематических моделей на основе векторных эмбедингов	S1, Tue 20 Oct, 13:35