

MoMLeT-2025 Workshop Programme

14 June 2025 (EEST - GMT+3)

URL: <https://us05web.zoom.us/j/88036771292?pwd=BUH0pKmk20k2vZHql2Q3CzgpWZ9ct9.1>

up to 09:00 – registration of participants

09:00 – 09:10 – at the opening of the conference

09:10 – 09:40 – Plenary session, keynote presentation:

09:10 – 09:40 – **Burak Gülmez**. Multi-Objective Optimization and Hub Location Benefits for Improved Logistics Performance

09:45 – 17:00 – Machine Learning session talks (10 min - report, up to 5 min - questions)

1	09:45 – 10:00 – Svitlana Popereshnyak, Dmytro Chornobryvets. <u>Real-time parking space monitoring system based on computer vision</u>	
2	10:00 – 10:15 – Peter Bidyuk, Irina Kalinina, Aleksandr Gozhyj, VictorGozhyi, Sergii Shiyen. <u>An Approach to Combining Forecasts when Solving Machine Learning Problems</u>	
3	10:15 – 10:30 – Asutosh Hota, Jussi P.P. Jokinen. <u>Conscience Conflict? Evaluating Language Models' Moral Understanding</u>	
4	10:30 – 10:45 – Nataliia Khatsko, Andrii Kopp, Kyrylo Khatsko, Yevhenii Shebanov, Olga Yanholenko. <u>Optimizing File Routing in EDI Using the New Naming Principle</u>	
5	10:45 – 11:00 – Oleksiy Oletsky, Dmytro Peleshko, Vitalii Moholivskiy. <u>Modeling Changes of Opinions as Transition Probabilities within One- and Two-Level Model "State-Probability of Action"</u>	
6	11:00 – 11:15 – Oleh Petryliak, Svitlana Kostenko, Lesya Dobuliak, Lyubomyr Chyrun. <u>Exploring Yolo architecture for detection of Ukrainian car license plates in images</u>	
7	11:15 – 11:30 – Olha Yanholenko, Andrii Kopp, Mykhailo Godlevskiy, Dmytro Orlovskiy, Nataliia Khatsko. <u>Towards Information Technology for BPMN Models Quality Assessment based on Intelligence Theory</u>	
8	11:30 – 11:45 – Iurii Krak, Olexander Mazurets, Oleksandr Ovcharuk, Maryna Molchanova, Olexander Barmak, Larysa Azarova. <u>Transformer-Based Multilabel Classification for Identifying Hidden Psychological Conditions in Online Posts</u>	
9	11:45 – 12:00 – Maria Yukhimchuk, Yurii Horchuk, Viacheslav Kovtun, Vladyslav Lesko. <u>Algorithmic Methods Of Constructing The Space Of Parameter Increments In Automated Control Systems Of Energy Processes</u>	
10	12:15 – 12:30 – Valerii Dymo, Aleksandr Gozhyj, Irina Kalinina. <u>Improving the Efficiency of Damaged Buildings Detection Based on ASPP Technologies</u>	
11	12:30 – 12:45 – Myroslav Komar, Andrii Taborovskiy, Ihor Maykiv, Serhii Hutsal, Dmytro Diuh. <u>Increasing the Efficiency of Decision-Making in a Decentralized Autonomous Organization in the Warehousing Sector</u>	
12	12:45 – 13:00 – Svitlana Popereshnyak Maksym Bielikov, Anton Bur. <u>Modeling and implementation of a secure freelance platform based on Ethereum smart contracts</u>	
13	13:00 – 13:15 – Viktoriia Zhebka, Svitlana Shlyanchak, Dmytro Nishchemenko, Svitlana Popereshnyak. <u>Real-time adaptive cleaning of IoT sensor data using machine learning noise classification and rule-based refinement</u>	
14	13:15 – 13:30 – Oleksandr Tymchenko, Bohdana Havrysh, Orest Khamula, Volodymyr Chornyak. <u>Hypergraph Structures for Parallel Integration of Databases into CRM</u>	
15	13:30 – 13:45 – Viacheslav Kovtun, Oksana Kovtun, Tetiana Gryshchuk. <u>Analytical Evaluation of the Performance of a High-Loaded 5G IoT Ecosystem Functioning</u>	
16	13:45 – 14:00 – Serhij Vladov, Anna Bakurova, Ivan Omelianenko, Ruslan Sirenko, Elina Tereschenko. <u>Ontology control system in Neo4j</u>	
17	14:00 – 14:15 – Victoria Vysotska, Viktoriia Yakovlieva, Sofia Ivaniv. <u>Intellectual analysis for Ukrainian refugees' number dynamics depending on attack frequency from russian federation</u>	
18	14:15 – 14:30 – Iryna Dilai, Maksym Davydov, Olha Oleksyn, Svitlana Kohut, Olha Baranovska, Anna Feldman. <u>Automatic Detection of Russia-Ukraine War Euphemisms</u>	
19	14:30 – 14:45 – Zoriana Rybchak, Iryna Zavushchak, Sergey Tyshko, Maksym Herashchenko, Oleksandr Lavrut, Tetiana Lavrut, Serhii Kravchenko. <u>Phase shift measurement method based on a half-period converter with amplitude-time conversion in the development of modern weapon systems</u>	

- 20 14:45 – 15:00 – Roman Peleshchak, Vasyl Lytvyn, Ivan Peleshchak, Viacheslav Beltiukov, Danylo Chystyakov, Yaroslav Kis. Detection and Recognition of Mines Using Magnetic Field Sensors and Kolmogorov-Arnold Networks
- 21 15:00 – 15:15 – Kateryna Bilyk, Olha Narushynska, Petro Liashchynskyi, Vasyl Teslyuk. Integrating Convolutional Neural Networks and Autoencoders for Skin Lesion Diagnosis
- 22 15:15 – 15:30 – Khrystyna Lipianina-Honcharenko, Ihor Ihnatiev, Hennadii Bohuta, Khrystyna Yurkiv, Stanislav Novosad. Rule-Based Method for Aligning Media Content with Ukrainian Legislation
- 23 15:30 – 15:45 – Yuriy Kondratenko, Ivan Sova, Oleksiy Kozlov, Vitalii Kuzmenko. Identification of Unmanned Aerial Vehicles Using RF Fingerprinting and Deep Learning Networks
- 24 15:45 – 16:00 – Yulian Kuryliak, Michael Emmerich. Towards Complexity Reduction of Large-Scale Epidemic Simulation in Two-Scale Networks
- 25 16:00 – 16:15 – Maxim Ivanytskyi, Yuliya Averyanova, Nadiia Sauliak, Yevheniia Znakovska. Machine Learning-Driven UAV Mapping for Automated Detection of Nutritional Deficiencies and Diseases in Wheat
- 26 16:15 – 16:30 – Olexander Mazurets, Olena Sobko, Rostyslav Dydo, Olha Zalutska, Maryna Molchanova. Augmented Reality Audiostream Creation Using CNN: Boosting Inclusion and Safety for Visually Impaired People
- 27 16:30 – 16:45 – Houda El Bouhissi, Naima Iloul, Tetiana Hovorushchenko, Olga Pavlova. Predicting Forest Fire: A New Hybrid Approach
- 28 16:45 – 17:00 – Oleh Veres, Pavlo Ilchuk, Olha Kots, Yurii Veres. Choosing the Best Location for a Trip Based on the TOPSIS Method

17.00 – 17:40 – Round table and closing ceremony of the workshop