

MoMLeT&DS-2023 PROGRAMME

03.06.2023 (Saturday)

[up to 10:00 – registration of participants \(CET - Central European Time\)](#)

[10:00 – 10:20 – at the opening of the conference](#)

Section #1 MoMLeT&DS work

10:20 – 16:00 – ML session talks

2	1	10:20 – 10:35 – Peter Bidyuk, Irina Kalinina, Oleksandr Zhebko, Aleksandr Gozhyj and Tetiana Hannichenko. Classification System Based on Ensemble Methods for Solving Machine Learning Tasks	
25	2	10:35 – 10:50 – Dmitriy Klyushin and Andrii Urazovskiy. Locating changepoints in multidimensional time series using non-parametric methods	
5	3	10:50 – 11:05 – Irina Kalinina, Peter Bidyuk, Aleksandr Gozhyj and Pavlo Malchenko. Combining Forecasts Based on Time Series Models in Machine Learning Tasks	
13	4	11:05 – 11:20 – Rayees Ahmad Dar and Dr. Rana Hashmy. A survey on Machine Learning Models for COVID -19 fake news detection	
62	5	11:20 – 11:35 – Roman Odarchenko, Azamat Imanbayev and Alla Pinchuk. Development of the testbed for testing Deep learning based IDS system for 5G network	
55	6	11:35 – 11:50 – Serhii Robotko, Andriy Topalov, Serhii Nekrasov, Valerii Zaitsev and Dmytro Zaitsev. Machine Learning and Modeling of the Impact of Trademark Filings on GDP Growth based on Python	
8	7	11:50 – 12:05 – Wilson Ahiara, Temitope Abioye, Tochukwu Chiagunye and Taiwo Olaleye. An Exploratory Data Analytics of Multivariate Observational Metrics on Generative AI	
60	8	12:05 – 12:20 – Sergiy Gnatyuk, Dmytro Proskurin and Tetiana Okhrimenko. Predicting Pseudo-Random and Quantum Random Number Sequences using Hybrid Deep Learning Models	
6	9	12:20 – 12:35 – Serhii Vladov, Yurii Shmelov, Ruslan Yakovliev, Yurii Stushchankyi and Yurii Havryliuk. Neural Network Method for Controlling the Helicopters Turboshaft Engines Free Turbine Speed at Flight Modes	
12:35 – 13:00 – coffee break			
28	10	13:00 – 13:15 – Yevhen Chychkarov and Olha Zinchenko. Handwritten Ukrainian Character Recognition using a Convolutional Neural Networks and Synthetic Dataset	
11	11	13:15 – 13:30 – Anatoliy Tryhuba, Oksana Malanchuk and Inna Tryhuba. Prediction of the duration of inpatient treatment of diabetes in children based on neural networks	
7	12	13:30 – 13:45 – Olga Cherednichenko and Fahad Muhammad. Collaborative Business Intelligence Virtual Assistant	
17	13	13:45 – 14:00 – Rostyslav Yurynets, Zoryna Yurynets, Maryna Nehrey, Yulia Biriukova and Nataliya Zhyhaylo. Modelling of Development of Hotel Business Potential and Economic Growth in Ukraine	
1	14	14:00 – 14:15 – Oleh Basystiuk and Zoriana Rybchak. Machine Learning Methods and Tools for Facial Recognition based on Multimodal approach	
9	15	14:15 – 14:30 – Lesia Mochurad, Roman Bliakhar and Natalia Reverenda. Identification and Tracking of Unmanned Aerial Vehicles Based on Radar Data	
10	16	14:30 – 14:45 – Lesia Mochurad, Ostap-Vasyl Matviiv, Halyna Lema and Roksolana Vilhutska. CUDA-Based Algorithm for Lidar Position Determination in Mobile Robotics	
15	17	14:45 – 15:00 – Yuliana Lavryk and Yurii Kryvenchuk. Product Recommendation System Using Graph Neural Network	

51	18	15:00 – 15:15 – Oleksandr Yaremchenko and Petro Pukach . Investigation and comparative analysis of algorithms about recognition of micro mimics for analysis of person using emotional AI	
57	19	15:15 – 15:30 – Serge Olszewski and Volodymyr Lytvynenko . Machine Learning Approach for the Prediction of Spa-tiotemporal Evolution of Organochlorine Pesticides	
58	20	15:30 – 15:45 – Serge Olszewsk and Volodymyr Lytvynenko . Methods of machine processing of thin-layer chromatography images	
59	21	15:45 – 16:00 – Nataliia Savina, Maria Voronenko and Volodymyr Lytvynenko . Modeling the Impact of Economic Factors using Fuzzy Cognitive Maps Trained with Particle Swarm Optimization Algorithm	

16:00 – 16:15 – round table discussion.

16:15 – 16:30 – coffee break

[Section #2 MoMLeT&DS work](#)

10:20 – 15:15 – DS session talks

42	2	10:20 – 10:35 – Bogdan Molodets, Volodymyr Hnatushenko, Daniil Boldyriev and Tetiana Bulana . Information System of Air Quality Assessment Using Data Interpolation from Ground Stations	
45	3	10:35 – 10:50 – Maryana Gvozd, Solomiia Ohinok, Uliana Ivaniuk, Kateryna Protsak and Liana Chernobay . Independent factors simulation of the influence on the level of sustainable development in intellectual systems of management	
61	18	10:50 – 11:05 – Andriy Fesenko and Ruslana Aleksieieva . A software tool for ensuring data integrity and confidentiality through the use of cryptographic mechanisms	
29	9	11:05 – 11:20 – Andrii Kopp and Dmytro Orlovskiy . Towards the Software Solution for Complexity Minimization of Business Process Models to Improve Understandability	
54	11	11:20 – 11:35 – Maxim Ivanytskyi, Yevheniia Znakovska and Yuliya Averyanova . UAS Flight Trajectory Optimization Algorithm Based on Operative Meteorological Information	
4	12	11:35 – 11:50 – Svitlana Krepych, Iryna Spivak and Serhii Spivak . Methodology of formation of the individual study plan of the student based on the graph model of the dependence of disciplines	
47	14	11:50 – 12:05 – Nestor Shpak, Ihor Novakivskiy, Ihor Kulyniak, Viktoriya Kharchuk and Ihor Oleksiv . Modeling the Development of the Tourism Industry Using the Koba-Douglas Function for Intelligent Management Systems	
30	21	12:05 – 12:20 – Olga Pavlova, Valeriia Shvaiko and Houda El Bouhissi . Human Morphofunctional Indicators-based Decision Support System for choosing Kind of Sport	
38	15	12:20 – 12:35 – El Bouhissi Houda, Dyhia Tagzirt, Faycal Bouedjioua and Olga Pavlova Health recommender system for smart cities	
12:35 – 13:00 – coffee break			
27	6	13:00 – 13:15 – Valentyna Yunchyk, Volodymyr Pasichnyk, Nataliia Kunanets, Maria Khomyak, Svetlana Yatsyuk, Vadim Muliar and Anatolii Fedonyuk . Model of the Recommender System for the Selection of Electronic Learning Resources	
56	1	13:15 – 13:30 – Petro Kravets, Mykola Prodaniuk and Volodymyr Pasichnyk . The Stochastic Game Model for Solving the Self-organization Problem of a Hamilton Graph Cycle	
44	17	13:30 – 13:45 – Nataliia Kunanets, Olga Artemenko, Volodymyr Pasichnyk, Vasyl Kut and Arsen Ivanchov . Using React and fuzzy expert systems for better travel experience in local route planning	
23	5	13:45 – 14:00 – Oleh Veres, Pavlo Ilchuk and Olha Kots . Methods of Recommendations for Analysis of Computer Components	
21	10	14:00 – 14:15 – Andrii Vasyliuk, Taras Basyuk and Vasyl Lytvyn . Design and Implementation of a Ukrainian-Language Educational Platform for Learning Programming Languages	

20	13	14:15 – 14:30 – Andrii Vasyliuk, Taras Basyuk and Olga Artemenko. Peculiarities of a Decision-Making Support System Development in Conditions of Uncertainty	
18	4	14:30 – 14:45 – Dmytro Ostrovka, Vasyl Teslyuk, Mariana Seneta, Iryna Kazymyra and Tetyana Smerdova. A method for modifying the geometry of 3D surfaces in USDZ format with further implementation in the SceneKit game engine	
12	7	14:45 – 15:00 – Mariia Nazarkevych and Oleh Faizulin. Smart Search and Diagnosis Assistant system for Physicians	
40	8	15:00 – 15:15 – Victoria Vysotska, Myroslava Bublyk, Yurii Matseliukh, Maryna Shevchenko and Valentyna Panasyuk. Influencing Factors Analysis on European and World Regional Economies Development Caused by War in Ukraine Based on Multi-Criteria Decision-Making Theory	
15:15 – 16:30 – CL session talks			
49	22	15:15 – 15:30 – Vasyl Andrunyk, Natalya Kalka and Tetiana Shestakevych. Virtual reality of art therapy for children with autism	
14	20	15:30 – 15:45 – Roksolana Nazarchuk and Solomiia Albota. Tweets about Ukraine during the russian-Ukrainian War: Quantitative Characteristics and Sentiment Analysis	
34	5	15:45 – 16:00 – Lyubomyr Chyrun, Taras Sopin, Oksana Markiv, Vasyl Andrunyk, Sofia Chyrun and Oleh Naum. Information Technology for Foreign Languages Remote Learning with Adaptation to the User Based on Machine Learning	
26	19	16:00 – 16:15 – Victoria Vysotska, Oksana Markiv, Stepan Tchynetskyi, Bohdan Polishchuk, Oksana Bratasyuk and Valentyna Panasyuk. Sentiment Analysis of Information Space as Feedback of Target Audience for Regional E-Business Support in Ukraine	
31	23	16:15 – 16:30 – Zoriana Rybchak, Olha Kulyna and Hanna Kravchenko. IT Slang Analysis System	
16.30 – 17:00 – closing ceremony of the workshop.			

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Section #1:

Join Zoom Meeting

<https://us05web.zoom.us/j/82040659094?pwd=UGI2T0w2RWwhMdUplcEluT0Z5bmFYZz09>

Meeting ID: 820 4065 9094

Passcode: MSa2Q4

Section #2:

Join Zoom Meeting

<https://us04web.zoom.us/j/72422053166?pwd=86sDqUdaFTCyucUbph5nR9ab2f1jr5.1>

Meeting ID: 724 2205 3166

Passcode: tsUR22