Modern Data Science Technologies Doctoral Consortium Programme
15-16 June 2025

Department of information systems and networks,
Lviv Polytechnic National University,
Mytropolyta Andreya st., 5, 4th educational building, room 124

15 June 2025	
up to 09:00	registration of participants
09:00 – 09:30	at the opening of the Doctoral Consortium
09:30 – 10:00	*Andrii Berko, Vladyslav Alieksieiev, Andrii Holovko.* Syntax-aware tokenizer for Go code style analysis
10:00 – 10:30	*Vita Kashtan, Volodymyr Hnatushenko, Maksym Ovcharenko, Artem Ivanko.* A hybrid neural network architecture for semantic-contextual analysis of emotions in social media
10:30 – 11:00	**Coffee Break**
11:00 – 11:30	*Rostyslav Fedchuk, Victoria Vysotska.* Mathematical model of a decision support system for identification and correction of errors in Ukrainian texts based on machine learning
11:30 – 12:00	*Vasyl Teslyuk, Iryna Gado, Bohdan Fylypchuk, Andrii Koval.* Methods and tools for automated adaptive traffic light control based on computer vision
12:00 – 12:30	*Viktoriia Hnatushenko, Anna Zhurba, Andrew Zimoglyad, Kateryna Ostrovska.* Research on environmental changes based on fractal characteristics of satellite images
12:30 – 13:00	**Coffee Break**
13:00 – 13:30	*Andrii Berko, Vladyslav Holdovanskyi.* Continuous-categorical feature dependence with Determination-based correlation coefficient
13:30 – 14:00	*Yuliia Kostiuk, Pavlo Skladannyi, Volodymyr Sokolov, Maksym Vorokhob.* Models and technologies of cognitive agents for decision-making with integration of artificial intelligence
14:00 – 14:30	*Nataliya Boyko, Yaroslav Borys.* Intelligent systems for recognizing artistic styles: a Deep Learning approach
14:30 – 15:00	**Coffee Break**
15:00 – 15:30	*Viacheslav Kovtun, Victoria Vysotska, Oksana Kovtun.* Contextual-formal concept of creating explainable models for corpus linguistics tasks
15:30 – 16:00	*Ihor Berizka, Ivan Karbovnyk.* Computational evaluation of logistic potential fields in real-time obstacle navigation
16 June 2025	
09:00 – 09:30	*Vasyl Teslyuk, Olga Narushynska, Maksym Arzubov, Danylo Prots.* End-to-end development of a retrieval-augmented large language model for cloud-based healthcare applications
09:30 – 10:00	*Kyrylo Smelyakov, Stanislav Danylenko, Anastasiya Chupryna, Victoria Vysotska.* Parametric configuration approach of a multidimensional content-based image retrieval model

10:00 – 10:30	*Mariya Nazarkevych, Rostyslav Yurynets, Zoryna Yurynets.* Forecasting credit risk using multinomial logistic regression
10:30 – 11:00	**Coffee Break**
11:00 – 11:30	*Taras Basyuk, Andrii Vasyliuk.* Development of a microcontroller-based climate control system using neural network technologies
11:30 – 12:00	*Victoria Vysotska, Iryna Kyrychenko, Vadym Demchuk.* Adaptive issue detection in holistic optimization of distributed data streaming systems
12:00 – 12:30	*Ihor Chushchak, Vasyl Andrunyk.* Modeling an AI-driven adaptive learning platform for students with special educational needs
12:30 – 13:00	**Coffee Break**
13:00 – 13:30	*Anatoly Sachenko, Bohdan Derysh, Lesia Dubchak, Svitlana Sachenko, Oksana Chereshnyuk.* Real-time military vehicle classification via convolutional neural networks
13:30 – 14:00	*Serhii Vladov, Nataliia Vladova, Victoria Vysotska, Vasyl Lytvyn, Mykhailo Luchkevych, Kateryna Surkova.* Intelligent adaptive model of helicopter turboshaft engines gas temperature sensor thermocouple
14:00 – 14:30	*Anatoliy Sachenko, Petro Vizhevskyi, Oleg Savenko, Viktor Ostroverkhov, Bogdan Maslyyak.* Modern strategies for data leak detection and prevention in corporate networks
14:30 – 15:00	**Coffee Break**
15:00 – 15:30	*Volodymyr Hnatushenko, Vita Kashtan, Oleksii Kazymyrenko.* Information technology for detecting cars on aerial imaging using a modified YOLO-OBB architecture
15:30 – 16:00	*Serhii Vladov, Anatoliy Sachenko, Nataliia Vladova, Victoria Vysotska, Sergii Grodskyi, Maclej Dobrowolski.* Intelligent method of measuring gas temperature of helicopter turboshaft engines with model error compensation
16:00 – 17:00	Round table and closing ceremony