



Draft Program of the 5th Edge Computing Workshop (doors 2025)

Zhytomyr, Ukraine, **April 04, 2025**

10:00-13:30 (UTC+3)

Link for workshop: <https://kdpu-edu-ua.zoom.us/j/84235303990?pwd=opCjz3T9nQjXyQd3WdalzQy67jdwfn.1>

Meeting ID: 842 3530 3990

Passcode: 974067

Time	Authors	Title of the article
10.00-10.10	Tetiana A. Vakaliuk, Andrii V. Morozov, Serhiy Semerikov	Welcome remarks
10.10-10.25	Yanan Song, Siwei Wei, Donghua Liu	GADGN: A dual graph convolutional architecture for traffic flow prediction
10.25-10.40	Zhicheng Li, Xinlu Zong, Jiaxin Hao, Orest Kochan	Multi-UAV 3D path planning based on improved sparrow search algorithm
10.40-10.55	Ming Xue	Studying the efficiency and performance of the vehicle detection method based on feature fusion and attention enhancement
10.55-11.10	Nikita S. Prasol, Denys V. Furikhata, Tetiana A. Vakaliuk, Timothy Y. Regenel	Integration of edge devices and IoT to create a climate monitoring system for plants
11.10-11.25	Dmytro V. Shevchenko, Bella L. Holub	Regression analysis as a tool for identifying patterns in atmospheric air monitoring data
11.25-11.40	Oleksandr Chaban, Eduard Manziuk, Olena Markevych, Sergii Petrovskyi, Pavlo Radiuk	EMTKD at the edge: An adaptive multi-teacher knowledge distillation for robust cardiac MRI classification
11.40-11.55	Dmytro I. Shvaika, Andrii I. Shvaika, Dmytro I. Landiak, Volodymyr O. Artemchuk	Scalable and reliable MQTT messaging: evaluating TBMQ for P2P scenarios
11.55-12.10	Viktor O. Maliarskyi, Vasyl P. Oleksiuk	Review of modern tools for edge computing systems quality assurance
12.10-12.25	Vadim V. Romanuke, Serhii Y. Dementiev, Svitlana A. Yaremko	An IoT-based system of mechanizing sport competition motion for perception improvement
12.25-12.40	Oleg Kobylin, Oleksandra Putiatina	Some aspects of real-time image denoising influenced by shot noise and compound Poisson noise

12.40- 12.55	Ihor A. Pilkevych, Mykola P. Romanchuk, Olena M. Naumchak, Dmytro L. Fedorchuk, Leonid M. Naumchak	Improved model for detecting randomly oriented objects on remote sensing images
12.55- 13.10	Serhiy O. Semerikov, Tetiana A. Vakaliuk, Olga B. Kanevska, Mykhailo V. Moiseienko, Ivan I. Donchev, Andrii O. Kolhatin	LLM on the edge: the new frontier
13.10- 13.25	Tetiana A. Vakaliuk	Awards and Close Ceremony