

September 27, 2025

Workshop CIAW-2025

Computational Intelligence Application Workshop

10⁰⁰-16⁰⁰

13⁰⁰-13³⁰ - Coffee break

Section Chairman: Vasyl TESLYUK

Moderators: Iryna KAZYMYRA, Andrii PUKACH

[Online link](#)

Regulation

report: up to 20 minutes

discussion - up to 10 minutes

Serhii Vladov, Victoria Vysotska, Andrii Nevynitsyn, Nataliia Vladova, Volodymyr Mazharov, Anatolii Yanitskyi, Andrii Voronin. Neural network self-regulating adaptive model for the helicopter turboshaft engines gas temperature analyzing

Irina Kalinina, Aleksandr Gozhyj, Viktoriia Chorna, Victor Gozhyi, Sergii Shiyan. System of modeling and forecasting real estate prices based on machine learning methods

Oleh Pitsun, Myroslav Shymchuk. A high-load architecture for image processing based on microservices

Oleh Pitsun, Myroslav Shymchuk. Improving the quality of cytological cell nuclei classification using ensembles

Pavlo Bratiuk, Leonid Ozirkovskyi. Methodological Problems of Computing The Average Power Of Pulse Currents

Volodymyr Sylantiev, Nonna Kulishova. Real-Time Emotion Recognition in Virtual Reality From Behavioral Motion

Ivan Peleshchak, Vasyl Lytvyn, Victoria Vysotska, Oleksii Khobor. A Lightweight Cross-Attentive TinyBERT with LoRA and Bi-GRU for Fake News Detection

Oleksandr Konduforov, Natalia Valenda, Victoria Vysotska, Anastasiya Chupryna. Evaluating the in-context learning capabilities of large language models for misinformation detection for Ukrainian news

Ihor Prots'ko, Roman Rykmas. Analysis of DHT basis structure formation for synthesis fast computational algorithms

Andrii Pukach, Vasyl Teslyuk. AI-based approach for forming software customer support teams based on multifactor portraits of candidates' perception subjectification of the support object

Oleksandr Karpin, Zinovii Liubun, Vasyl Mandziy. Efficient touch detection based on neural networks trained on small samples for sensor systems with limited resources

Anton Guda, Andrew Zimoglyad, Viktoriia Hnatushenko, Anna Zhurba. Development of a JFET model with increased accuracy: measurements of wrangling data, acquisition and model analysis

Vasyl Teslyuk, Iryna Kazymyra, Rostyslav Zahvoiskyi, Stepan Omeliukh. Edge-cloud monitoring system for smart vertical farming

Lyubomyr Chyrun, Dmytro Uhryn, Yuriy Ushenko, Oleksii Iliuk, Yuriy Masikevych. Detection of intestinal thrombosis using a hybrid method based on genetic algorithm and grey wolf optimisation
Victoria Vysotska, Kirill Smelyakov, Anastasiya Chupryna, Maksym Derenskyi, Vadim Repikhov, Mykyta Hvozdiev. Developing of AI Assistant for Route Optimization Intelligent System
Vladyslav Kotsovsky. A centered bithreshold neural network regressor
Inna Rozlomii, Andrii Yarmilko, Serhii Naumenko. Detecting anomalous activity in smart grids to analyze node energy profiles
Dmytro Savchuk, Anastasiya Doroshenko. Explainable AI for High-Risk Applications: Comparative Analysis of Traffic Forecasting Models in Smart Cities
Victoria Vysotska, Dmytro Uhryn, Oleksii Iliuk, Yuriy Ushenko, Vasyl Yatsyshyn. Neural Network-Driven Hybrid Algorithm Generation of Integrating Grey Wolf, Bee, Ant, Genetic, and Bat Meta-heuristics
Vita Kashtan, Volodymyr Hnatushenko. Quantum processing in image fusion for multispectral remote sensing data
Oleg Riznyk, Yurii Kynash, Mariia Semeniv, Yuriy Pelekh. Using the Non-Equidistant Ray Tracing Algorithm for 3D Rendering
Yuriy Pelekh, Yurii Kynash, Oleg Riznyk, Taras Kovaliv. Intelligent system for modelling and optimization of the IT-project management process
Andriy Hryvnyak, Yurii Prepodobnyi, Anastasiya Doroshenko. Immersive technologies and generative AI in the field of cultural heritage: Ukrainian practices and educational integration
Anastasiya Doroshenko, Kvitoslava Obelovska, Tetiana Anton, Rostyslav Liskevych. Augmented and Virtual Reality for Education: A Case Study in 5G Network Slicing
Lubomyr Sikora, Pavlo Grytsiuk, Yurii Hrytsiuk. Method for generating a sequence of bivariate polynomial Fibonacci matrices
Ivan Tsmots, Vasyl Teslyuk, Vasyl Rabyk, Yurii Opotyak, Oleksandr Oliinyk. Sensor Data Improvement Accuracy Methods Implementation for Embedded Systems
Ihor Liakh, Yurii Kish, Nataliia Shumylo, Iryna Gado. Methods and tools of computational intelligence in IT risk management modeling: advantages and limitations