



Computational Intelligence Application Workshop

CIAW-2025

September 26-27, 2025, Lviv, Ukraine

Program Committee

Vasyl TESLYUK, Lviv Polytechnic National University, Ukraine

Natalia KRYVINSKA, Comenius University Bratislava, Slovakia

Aneta PONISZEWSKA-MARANDA, Lodz University of Technology, Poland

Ivan TSMOTS, Lviv Polytechnic National University, Ukraine

Ricardo J. RODRÍGUEZ, University of Zaragoza, Spain

Vitaliy YAKOVYNA, University of Warmia and Mazury in Olsztyn, Poland

Mariia NAZARKEVYCH, Ivan Franko National University, Ukraine

Lyubomyr CHYRUN, Ivan Franko National University, Ukraine

Vasyl LYTVYN, Lviv Polytechnic National University, Ukraine

Aleksandr GOZHYY, Petro Mohyla Black Sea National University, Ukraine

Oleh BEREZKYI, West Ukrainian National University, Ukraine

Irina KALININA, Petro Mohyla Black Sea National University, Ukraine

Roman TKACHENKO, Lviv Polytechnic National University, Ukraine

September 26-27, 2025

Lviv, Ukraine

10⁰⁰-15⁰⁰

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

1	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
2	Irina Kalinina, Aleksandr Gozhyj, Viktoria Chorna, Victor Gozhyi, Sergii Shiyan. System of modeling and forecasting real estate prices based on machine learning methods
3	Oleh Pitsun, Myroslav Shymchuk. A high-load architecture for image processing based on microservices
4	Nonna Kulishova, Volodymyr Sylantiev. Real-Time Emotion Recognition in Virtual Reality From Behavioral Motion
5	Ivan Peleshchak, Vasyl Lytvyn, Victoria Vysotska, Oleksii Khobor, Mykhailo Luchkevych. A Lightweight Cross-Attentive TinyBERT with LoRA and Bi-GRU for Fake News Detection
6	Anastasiya Doroshenko, Dmytro Savchuk. Explainable AI for High-Risk Applications: Comparative Analysis of Traffic Forecasting Models in Smart Cities
7	Ivan Tsmots, Andrii Pukach, Artem Kazarian, Mariana Seneta. AI-based approach for forming software customer support teams based on multifactor portraits of candidates' perception subjectification of the support object
8	Oleh Pitsun, Myroslav Shymchuk. Improving the quality of cytological cell nuclei classification using ensembles
9	Viktoriia Hnatushenko, Anton Guda, Andrew Zimoglyad, Anna Zhurba. Development of a JFET model with increased accuracy: measurements of wrangling data, acquisition and model analysis
10	Vasyl Teslyuk, Iryna Kazymyra, Rostyslav Zahvoiskyi, Stepan Omeliukh. Edge-cloud monitoring system for smart vertical farming
11	Victoria Vysotska, Anastasiya Chupryna, Natalia Valenda, Oleksandr Konduforov. Evaluating the in-context learning capabilities of large language models for misinformation detection for Ukrainian news
12	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

September 27, 2025,

Lviv, Ukraine

10⁰⁰-15⁰⁰

13⁰⁰-13³⁰ - Coffee break

Section Chairman: Vasyl TESLYUK

Moderators: Mariana SENETA, Andrii PUKACH

[Online link](#)

Regulation

report: up to 20 minutes

discussion - up to 10 minutes

1	Vladyslav Kotsovsky. A centered bithreshold neural network regressor
2	Victoria Vysotska, Kirill Smelyakov, Anastasiya Chupryna, Maksym Derenskyi, Vadim Repikhov, Mykyta Hvozdiev. Developing of AI Assistant for Route Optimization Intelligent System
3	Inna Rozlomii, Andrii Yarmilko, Serhii Naumenko. Detecting anomalous activity in smart grids to analyze node energy profiles
4	Victoria Vysotska, Kirill Smelyakov, Anastasiya Chupryna, Kateryna Liulina. Methods of Named Entities Recognition of Location Type in Unstructured Ukrainian Texts
5	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
6	Volodymyr Hnatushenko, Vita Kashtan. Quantum processing in image fusion for multispectral remote sensing data
7	Anastasiya Doroshenko, Kvitoslava Obelovska, Rostyslav Liskevych, Tetiana Anton. Augmented and Virtual Reality for Education: A Case Study in 5G Network Slicing
8	Victoria Vysotska, Kyrylo Smelyakov, Anastasiya Chupryna, Matvii Kuchapin. Towards a methodology for parameter selection in Adaptive Cache Management.
9	Ihor Liakh, Yurii Kish, Nataliia Shumylo. Methods and tools of computational intelligence in IT risk management modeling: advantages and limitations
10	Yurii Kynash, Oleg Riznyk, Iryna Gado, Yuriy Pelekh, Taras Kovaliv. AI-Driven system for modeling and optimization in IT project management
11	Victoria Vysotska, Kirill Smelyakov, Anastasiya Chupryna, Dmytro Darahan, Oleh Torubara, Oleh Shyshymenko. Social engineering in Ukraine: threats and intelligent detection approaches
12	Igor Povkhan, Vasyl Morokhovych, Bohdan Morokhovych, Mykhailo Klyap. Information technology solutions to support volunteer Projects.