



WEST UKRAINIAN
NATIONAL
UNIVERSITY



Wroclaw University
of Economics and Business



U
BB
Uniwersytet
Bielsko-Bialski



Scientific Society of WUNU
graduates, doctoral students and young

WORKSHOP PROGRAMME



YAISD

**2026 THE THIRD
INTERNATIONAL
CONFERENCE OF YOUNG
SCIENTISTS ON ARTIFICIAL
INTELLIGENCE FOR
SUSTAINABLE DEVELOPMENT**

**MAY 7 - 8, 2026
TERNOPIL - SKOMOROKHY,
UKRAINE**

GENERAL YAISD 2026 TIMETABLE

Kyiv Time	May 7 (Ternopil)
9:30 – 10:00	Registration
10:00 – 10:10	Conference opening
10:10 – 11:00	Keynote speakers
11:00 – 15:30	Section 1 (audience 1303)
15:30 – 16:00	Summary of the first day of the conference (audience 1303)

Kyiv Time	May 8 (Skomorokhy)
10:30 – 11:00	Registration
11:00 – 14:00	Section 2
14:00 – 14:30	Summary of the second day of the conference

TIME FOR PRESENTATIONS

Paper presentation – 7 min.

Discussion, questions – 3 min.

Online/Offline

ZOOM: <https://wunu-edu-ua-ternopil.zoom.us/j/3232667057> (Passcode: 2026)

Meeting ID: 323 266 7057

Passcode: 2026



May 7

Conference opening

Chairman: Hanna Poperechna

10:00 – 10:10
Kyiv Time

Oksana Desyatnyuk – Rector of West Ukrainian National University
Mykola Dyvak – Vice-Rector for Scientific Research of West Ukrainian National University

Keynote speakers



Dr. Frane Urem, Vice Dean of the Šibenik University of Applied Sciences, professor (Croatia), University of Zadar, professor (Croatia), Oracle Academy Instructor (EMEA)

«Eco Minds Project»

10:10-10:35



Dr. Przemysław Pałka, Assistant Professor of Law, Jagiellonian University, Affiliated Fellow, Yale ISP

«Cause and Cure: AI-Assisted Compliance Assessment Under EU Digital Regulation»

10:35-11:00

Session 1 (Ternopil)
May, 7

Chairman: Hanna Poperechna, Oleh Pitsun

11:00 – 11:10

Online Anomaly Detection Models in Infocommunication Systems Based on Autoencoders
Zoriana Dvulit, Olena Hordiichuk-Bublivska, Mykola Brych, Oleksii Kovalisko and Lesia Brych

11:10 – 11:20	AI-driven Driver Support System with Adaptive Music Accompaniment and Logistics <i>Vasyl Morokhovych, Bohdan Morokhovych, Yuliia Cheketa and Valentyn Riabinchak</i>
11:20 – 11:30	A universal real-time validation algorithm for rehabilitation exercises based on spatial pose configuration analysis <i>Yaroslav Hladkyi, Volodymir Druzhyinin, Myroslava Gladka, Sergiy Paliy and Rostyslav Lisnevskyy</i>
11:30 – 11:40	Attention-Based Multimodal Fusion Architecture for Intelligent Robotic Demining Systems <i>Hlib Shchur and Iryna Dumyn</i>
11:40 – 11:50	The Hidden Curriculum of AI Misuse at the Universities <i>Artem Artyukhov, Oleksandr Dluhopolskyi, Dmytro Chumachenko, Vadim Schuchmann and Andrii Butnar</i>
11:50 – 12:00	Web platform for Land Surface Temperature forecasting using Recurrent Neural Networks <i>Olga Pavlova, Vitalii Alekseiko, Andrii Kuzmin and Anna Maria Kamińska</i>
12:00 – 12:10	Analysis of the Defense Effectiveness of Cloud WAFs (AWS, GCP, ModSecurity) Against Command Injection Attacks <i>Ivan Fedorenko, Dmytro Hasilin, Roman Banakh and Ihor Zhuravel</i>
12:10 – 12:20	Institute of Civil Confiscation: International Experience and Artificial Intelligence-Based Model <i>Olga Karapetian, Valerii Kaniuka and Artem Karapetian</i>
12:20 – 12:30	Intelligent digital decision support system for evaluating and improving the efficiency of personnel in agricultural enterprises <i>Yurii Semenenko, Kateryna Pryshliak, Oleksandr Bilobrovko</i>
12:30 – 12:40	FMEA-Based Risk Index method and Predictive Rule for Assessing Monorail Crane Stability <i>Bohdan Solovei and Oleksandr Terentyev</i>
12:40 – 12:50	Spiking Cascade Ensemble <i>Yevgeniy Bodyanskiy and Denys Savenkov</i>
12:50 – 13:00	Hybrid Recommendation System for Literary Preference Analysis: Cascaded TF-IDF, SVD, and Sentiment-Aware Architecture <i>Nadiia Chaban and Anna Pylypenko</i>
13:00 – 13:30	Coffee Break
13:30 – 13:40	AI Divide as a New Axis of Social Stratification: Risks of Algorithmization of Educational Policies for Human Capital in Ukraine <i>Myroslava Kukhta and Andrii Khomiak</i>

13:40 – 13:50	An Integrated Framework for Air Quality Assessment Based on Global Experience and Key Pollution Indicators with Environmental–Health Impacts <i>Armen Ghazaryan, Saak Gudratian, Gayane Khanumyan, Vergine Kirakosyan, Anna Kirakosyan, Arsen Petrosyan and Liana Fidanyan</i>
13:50 – 14:00	AI-Driven Multimodal Damage Detection and Localization in Wind Turbine Blades for Sustainable Infrastructure Monitoring <i>Bohdan Derysh and Lesia Dubchak</i>
14:00 – 14:10	XR Interaction in Industrial Applications: Unity as a Platform for Working with Digital Twins <i>Andrii Yarmilko, Dmytro Buriak and Andrii Danylov</i>
14:10 – 14:20	Development of software modules for a web-based system of facial anatomical structure reconstruction using 3d modeling and anatomical calculations <i>Roman Chekhmestruk and Dmytro Furdypal</i>
14:20 – 14:30	Adaptive Spatial-Temporal Filtering for Real-Time Parking Occupancy Detection Using Edge-Based Computer Vision <i>Olga Pavlova, Volodymyr Avsiievych and Houda EL Bouhissi</i>
14:30 – 14:40	AI-Based Decision Support for Optimising Bioenergy Systems in Sustainable Infrastructure Development <i>Yuliia Palaniuk, Oleksiy Yaroshchuk and Iryna Belova</i>
14:40 – 14:50	AI-Co-Piloted Engineering of an Interactive Educational Suite for Automated Line Integral Visualization and Verification in Vector Calculus <i>Halyna Tuluchenko and Artem Kovalskiyi</i>
14:50 – 15:00	Comparison of Classical Fourier Approximation and AI Based LSTM Models for Forecasting Monthly Temperature Time Series <i>Iurii Lukianchenko and Alina Marak</i>
15:00 – 15:10	Fuzzy Set Approach to Evaluating the Effectiveness of Tax and Fee Administration <i>Fedir Tkachyk, Oksana Desyatnyuk, Svitlana Sachenko, Oksana Chereshnyuk, Vadym Lastovytskyi</i>
15:10 – 15:20	Information and analytical approaches to the transformation of environmental taxation in the context of stimulating green finance <i>Andriy Krysovaty, Fedir Tkachyk, Olena Ptashchenko, Bohdana Shuliuk, Nataliia Gavkalova and Petro Franchuk</i>
15:20 – 15:30	Network Traffic Anomaly Detection in Computer Systems with Graph Neural Networks <i>Oleksandr Martsenkov, Oleg Savenko and Vadym Paiuk</i>
15:30 – 16:00	Summary of the first day of the workshop (audience 1303)

Session 2
(Skomorokhy)

May, 8

Chairman: Hanna Poperechna, Oleh Pitsun

11:00 – 11:10	AI-Assisted Legislative Analysis: A Framework for Identifying Terminological Inconsistencies in Information and Cybersecurity <i>Olha Kovalchuk, Nadiya Khoma, Keteryna Verbitska, Anhelina Banakh, Roman Ivanytskyi and Ludmila Babala</i>
11:10 – 11:20	Ensemble method for classifying students' stress factors <i>Oleh Pitsun, Yaroslav Dykiy, Maria Lysyk, Anastasia Sobchak, Maria Mudrak</i>
11:20 – 11:30	Modeling the Dynamics of Nitrate Concentration Under River Flow Influence: Interval Difference Modeling vs Neural Network <i>Mykola Dyvak, Andriy Melnyk, Oleksandr Kindzerskyi and Nataliia Petryshyn</i>
11:30 – 11:40	Modular framework for detecting AI-generated face images based on a hybrid CNN+GNN architecture with automatic configuration selection <i>Petro Liashchynskiy, Vadym Fayerchuk, Hanna Poperechna</i>
11:40 – 11:50	AI-Assisted Assessment of Energy-SDG Linkages: Correlation Structure and Country Typology Based on Incomplete Cross-Country Data <i>Olga Zavytii, Vladyslav Poidych, Olha Kovalchuk, Natalia Karpushyn, Oleksandra Ivashko and Yurii Rutetskyi</i>
11:50 – 12:00	Disclosure is not Integrity: why AI Transparency Policies Fail in Scientific Research? <i>Artem Artyukhov, Oleksandr Dluhopolskyi, Dmytro Chumachenko, Vadim Schuchmann and Volodymyr Lominskyi</i>
12:00 – 12:10	Fuzzy Logic Model for Database Value Assessment <i>Ruslan Brukhanskyi, Pavlo Spilnyk, Iryna Spilnyk, Oksana Chereshnyuk and Rustam Mamatov</i>
12:10 – 12:20	Comparative Analysis of CNN Architectures for Detecting the Solar Panel Defect <i>Maksym Palka</i>
12:20 – 12:30	Intelligent Method for Interpretation of Legal Information <i>Andrii Yakymyshyn, Khrystyna Lipianina-Honcharenko, Ivan Kit and Khrystyna Yurkiv</i>
12:40 – 12:50	Fuzzy Controller for IT Project Cost Estimation <i>Nadiia Savka, Oleksandra Zinkevych, Liliya Rebukha</i>
12:50 – 13:00	Methodological Framework for Assessing the Inclusive Sustainable Development of Local Communities <i>Alina Zhukovska, Tetiana Zheliuk, Valentyna Panasyuk, Vadym Schuchmann, Volodymyr Andruntsiv, Oleh Bohach</i>

13:00 – 13:10	AI-Assisted Model for Detecting Greenwashing in Corporate Sustainability Reporting Using Accounting and Non-Financial Data <i>Yuliya Bila, Zenovii-Mykhailo Zadorozhnyi, Volodymyr Muravskiy, Oleg Shevchuk, Olena Borysiak</i>
13:10 – 13:20	A Hybrid Intelligent System for Identifying and Predicting Risks in Software Projects Based on DORA Metrics, KPIs and Fuzzy Machine Learning <i>Yurii Huk, Lyudmyla Honchar</i>
13:20 – 13:30	Application of Machine Learning Methods for Forecasting Greenhouse Gas Emissions Based on Our World in Data <i>Stepan Ivasiev, Vitalii Kobytzia, Ivan Yanik and Alina Davletova</i>
13:30 – 13:40	Hybrid Ensemble Deep Learning Architecture for Real-Time Network Anomaly Detection in Critical Infrastructure <i>Ludmila Babala, Serhii Kulyna, Vasyl Rybinskyi and Vladyslava Sapitash</i>
13:40 – 13:50	Algorithms for Optical Character Recognition of Ukrainian Printed Editions of the Late Nineteenth and Early Twentieth Centuries <i>Grygoriy Melnyk and Volodymyr Yarych</i>
13:50 – 14:00	Decarbonizing Urban Mobility: A Topography-Aware Deep Reinforcement Learning Approach to Traffic Control <i>Oleksander Ryzhanskyi, Vitaliy Pavlyshyn, Eduard Manziuk, Pavlo Radiuk, Oleksander Barmak, Iurii Krak</i>
Close ceremony Room 1	
14:00 – 14:10	Hanna Poperechna – Head of scientific society of WUNU students, postgraduates, doctoral students and young scientists Oleh Pitsun - secretary of scientific society of WUNU students, postgraduates, doctoral students and young scientists
An invitation to a buffet	

INTERNATIONAL PROGRAM COMMITTEE

Honorary Chairmen

Oksana Desyatnyuk – Rector of West Ukrainian National University (Ukraine)

Andriy Krysovaty – Chairman of the Academic Council of WUNU (Ukraine)

Mykola Dyvak – Vice-Rector for Scientific Research, WUNU, Ukraine

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