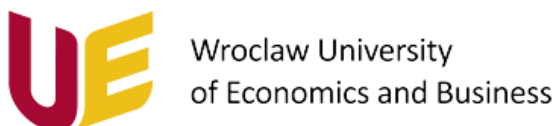




Workshop of Young Scientists on Artificial Intelligence
for Sustainable Development

May 10 - 11, 2024, Ternopil, Ukraine
aisd.wunu.edu.ua

CONFERENCE PROGRAMME



GENERAL AISD 2024 TIMETABLE

May 10	
9:30 – 10:00 Kyiv Time	Registration
10:00 – 10:30 Kyiv Time	Conference opening
10:30 – 11:30 Kyiv Time	Keynote speakers
10:30 – 16:00 Kyiv Time	Sections (Room 1 (audience 1301), Room 2 (audience 1212))

TIME FOR PRESENTATIONS

Paper presentation – 10 min.

Discussion, questions – 5 min.

ZOOM: <https://wunu-edu-ua-ternopil.zoom.us/j/4098008072?omn=88340406567>

Meeting ID: 409 800 8072

Passcode: 1005



The First International Workshop of Young Scientists on
Artificial Intelligence for Sustainable Development

May 10

Conference opening

Chairman: Hanna Poperechna

10:00 – 10:30
Kyiv Time

Oksana Desyatnyuk – Rector of West Ukrainian National University
Mykola Dyvak – Vice-Rector for Scientific Research of West Ukrainian National University
Olesia Vashchuk – Chairman of the Council of Young Scientists under the Ministry of Education and Science of Ukraine
Welcome speech

Keynote speakers

10:30 – 11:30
Kyiv Time

Artur Rot - Prof. (Wroclaw University of Economics and Business, Poland)
"Artificial Intelligence: Concepts And Applications"

Frederyk Zoll – Prof. (Jagiellonian University (Poland); Osnabruk University (Germany))
"Trends in legal regulation of artificial intelligence in the European Union"

**Section “Innovations in Nature Management and Infrastructure”
Room1**

Chairman: Oleh Pitsun

11:30 – 11:45	Artificial Intelligence Application in Renewable Energy Sources <i>Iryna Hural, Petro Putsenteilo, Vadym Fayerchuk, Maryna Kudybyn and Oleksandr Koshparenko</i>
11:45 – 12:00	Intelligent system for visual testing of software products <i>Viktor Fedorovych, Myroslav Komar, Vladyslav Poidysh and Andrii Taborovskyi</i>
12:00 – 12:15	Verifying the Economic Potential of Low-Carbon Energy Using Artificial Intelligence in Transport <i>Olena Borysiak , Volodymyr Manzhula , Yuliya Bila , Nataliia Petryshyn, and Dmytro Vovchuk</i>
12:15 – 12:30	Enhancing the Efficiency of Decision Support Systems in the Warehousing Sector <i>Andrii Taborovskyi, Myroslav Komar and Serhii Hutsal</i>
12:30 – 12:45	Data transformation review in deep learning <i>Agata Kozina</i>
12:45 – 13:00	Comparative Analysis of CNN Architecture for Emotion Classification on Human Faces <i>Oleh Pitsun, Hanna Poperechna, Liudmyla Savanets, Grygoriy Melnyk, Bohdan Halunka</i>
13:00 – 13:30	Coffee Break

**Section “Technological Innovations in Law and Social Development”
Room 1**

Chairman: Hanna Poperechna

13:30 – 13:45	Content Analysis of Court Decisions: A GPT-4 Based Sentence-by-Sentence Data Generation and Association Rules Mining <i>Olha Kovalchuk, Ruslan Shevchuk, Mariia Masonkova and Anhelina Banakh</i>
13:45 – 14:00	Exploring the future of UAE judiciary: AI integration, bias mitigation, and systemic enhancements <i>Rymma Topchy</i>
14:00 – 14:15	Comparative analysis of stress factors of humanities and technical specialities students <i>Oleh Pitsun, Yaroslav Dykyy, Maria Lysyk and Anastasiia Sobchak</i>
14:15 – 14:30	Integrated Approach to the International Aspects of Online Dispute Resolution Formation <i>Nataliia Martsenko, Anastasiia Melnychuk, Khrystyna Lipianina-Honcharenko, Khrystyna Yurkiv and Gregory Hladiy</i>
14:30 – 14:45	Evaluating the Effectiveness of Attention-Gated-CNN-BGRU Models for Historical Manuscript Recognition in Ukraine

Volodymyr Yarych, Andrii Ivasechko, Khrystyna Lipianina-Honcharenko, Anatolii Filinyuk, Khrystyna Yurkiv and Tetian Lebid

Section “Smart Technologies for Economic and Management”
Room 1

Chairman: Hanna Poperechna

14:45 – 15:00	Fuzzy Audit System of Enterprise Activity <i>Lesia Dubchak, Oksana Chereshnyuk, Marta Miruta and Maksym Brunarskyi</i>
15:00 – 15:15	Does Expectations Affect Inflation Forecasting Abilities of Machine Learning Techniques: Case of Ukraine <i>Nataliia Dziubanovska, Viktor Koziuk, Dmytro Hural and Iryna Danyliuk</i>
15:15 – 15:30	Machine Learning for Assessing StartUp Investment Attractiveness <i>Nataliia Dziubanovska, Vadym Maslii, Oleksandr Shekhanin and Serhii Protsyk</i>

Section “Application of Artificial Intelligence in Education”
Room 2

Chairman: Oleh Pitsun

14:45 – 15:00	The role of artificial intelligence in personnel selection and performance management <i>Kateryna Pryshliak and Yurii Semenenko</i>
15:00 – 15:15	Innovative Approaches to Mobile Robot Stabilization in Dynamic Environments <i>Dmytro Panchak and Vasyl Koval</i>
15:15 – 15:30	Comparison of image processing techniques for defect detection <i>Semen Kovalskyi and Vasyl Koval</i>
15:30 – 15:45	A transforming method of video materials into the listener language <i>Ihor Bandura, Oleksandr Osolinskyi, Roman Komarnytsky</i>
15:45 – 16:00	Integrating Blockchain with IoT: A Survey on Secure and Power-efficient Blockchain Architecture <i>Serhii Kozlovskiy, Mykhailo Dombrovskyi</i>

Close ceremony
Room 1

16:00 – 16:30	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
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An invitation to a buffet

INTERNATIONAL PROGRAM COMMITTEE

Honorary Chairmen

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

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

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

Programme Committee

Hernes Marcin – Prof. (Wroclaw University of Economics and Business, Poland)

Artur Rot – Prof. (Wroclaw University of Economics and Business, Poland)

Ewa Walaszczyk – Dr. (Wroclaw University of Economics and Business, Poland)

Wiesława Gryncewicz – Dr. (Wroclaw University of Economics and Business, Poland)

Vasyl Martsenyuk – Prof. (University of Bielsko-Biala, Poland)

Ruslan Shevchuk – Dr. (University of Bielsko-Biala, Poland)

Marcin Bernaś – Dr. (University of Bielsko-Biala, Poland)

Wolfgang Dorner – Prof. (Deggendorf Institute of Technology, Germany)

Libor Dostálek – Prof. (University of South Bohemia, Czech Republic)

Jan Fesl – Dr. (University of South Bohemia, Czech Republic)

Michal Konopa – Dr. (University of South Bohemia, Czech Republic)

Tetyana Drakohrust – Prof. (WUNU, Ukraine)

Roman Zvarych – Prof. (WUNU, Ukraine)

Andriy Melnyk – Prof. (WUNU, Ukraine)

Hryhoriy Monastyrskyy – Prof. (WUNU, Ukraine)

Volodymyr Muravskyy – Prof. (WUNU, Ukraine)

Andriy Pukas – Prof. (WUNU, Ukraine)

Iryna Shkitska – Prof. (WUNU, Ukraine)

Antin Shuvar – Prof. (WUNU, Ukraine)

Myroslav Komar – Prof. (WUNU, Ukraine)