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CZECHOSLOVAKIA SECTION IEEE \ COMPUTER CHAPTER, C16
TERNOPIL REGION ASSOCIATION OF PROFESSIONALS IN COMPUTER INFORMATION TECHNOLOGY, UKRAINE
MONET+, CZECH REPUBLIC

2026 16th International Conference on

ADVANCED COMPUTER INFORMATION TECHNOLOGIES

CONFERENCE PROGRAM

Version 1.3
Last updated: 26 August 2026

Zlin, Czech Republic
2-4 September 2026

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- Tomas Bata University in Zlin, Czech Republic

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CONFERENCE SECTIONS

Section ID	Section Title
S1	Computational Intelligence and Mathematical Modelling
S2	Information in Economy and Management
S3	Cyber Security
S4	Specialized Information and Computer Systems
S5	Artificial Intelligence and Cognitive Systems
S6	Information Technology in Education
S7	Poster Section

CONFERENCE STATISTICS

Number of submitted papers – 650, Number of accepted papers – 305
Acceptance rate – 46.92 %

PARTICIPATING COUNTRIES

Albania, Algeria, Austria, Bahrain, Bangladesh, Bhutan, Brazil, Brunei, Bulgaria, Cameroon, Canada, Central African Republic, Chad, China, Colombia, Costa Rica, Croatia, Cyprus, Czech Republic, Denmark, Ecuador, Egypt, France, Georgia, Germany, India, Indonesia, Israel, Italy, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Malaysia, Malta, Mauritius, Montenegro, Morocco, Mozambique, Myanmar, Nepal, Nigeria, Norway, Oman, Pakistan, Philippines, Poland, Portugal, Qatar, Republic of Korea, Romania, Slovakia, South Africa, Spain, Sri Lanka, Tajikistan, Togo, Turkey, Turkmenistan, Ukraine, United Arab Emirates, United Kingdom, United States, Uzbekistan, Vietnam

CONFERENCE RANKING (SCOPUS)*

Category	Quartile	Rank	Percentile
Information Systems and Management	Q3	136/222	38th
Computational Mathematics	Q3	142/212	33rd
Computer Networks and Communications	Q3	384/568	32th
Artificial Intelligence	Q3	390/570	31th
Modeling and Simulation	Q3	273/397	31th
Information Systems	Q3	358/519	31th
Computer Science Applications	Q3	758/1022	25th

*CiteScore rank 2025: **https://www.scopus.com/sourceid/21101198489**

CONFERENCE TIMETABLE

Physical location	Tomas Bata University in Zlín, Faculty of Applied Informatics, Nad Stráněmi 4511, 760 05, Zlín					
	Room 51/107	Room 51/108	Room 51/118	Room 51/119	Room 51/219	Room 51/220
Zoom	Zoom 1	Zoom 2	Zoom 3	Zoom 4	Zoom 5	Zoom 6
Wednesday, 02.09.2026						
9:00 - 10:00	**Registration & Coffee**					
10:00 - 10:45	**Opening Ceremony (Room 51/107 \ Zoom 7)**					
11:00 - 13:00	**S1. Block A** **V. Stepashko, S. Lupenko**	**S1. Block G** **I. Grebennik, W. Gryncewicz**	**S3. Block A** **B. Adamyk, R. Shevchuk**	**S4. Block A** **A. Melnyk, V. Melnyk**	**S5. Block A** **V. Lytvynenko, M. Voronenko**	**S6. Block A** **F. Urem, I. Kardum Goleš**
13:00 - 14:00	**Lunch**					
14:00 - 15:30	**S1. Block B** **S. Lupenko, V. Stepashko**	**S2. Block A** **A. Rot, O. Ptashchenko**	**S2. Block E** **O. Adamyk, I. Lishchynskyy**	**S4. Block B** **V. Melnyk, A. Melnyk**	**S3. Block D** **V. Yatskiv, L. Dostálek**	**S5. Block F** **W. Dorner, I. Turchenko**
15:30 - 16:00	**Coffee break**					
16:00 - 18:00	**S1. Block C** **N. Dziubanovska, R. Yuzefovych**	**S1. Block H** **W. Gryncewicz, I. Grebennik**	**S3. Block B** **R. Shevchuk, V. Yatskiv**	**S4. Block C** **A. Pukas, I. Voytyuk**	**S5. Block B** **M. Voronenko, V. Lytvynenko**	**S6. Block B** **I. Kardum Goleš, F. Urem**
Thursday 03.09.2026						
8:00 - 9:00	**Coffee break**					
9:00 - 11:00	**S1. Block D** **R. Yuzefovych, N. Dziubanovska**	**S2. Block B** **O. Ptashchenko, A. Rot**	**S2. Block F** **I. Lishchynskyy, O. Adamyk**	**S4. Block D** **I. Voytyuk, A. Pukas**	**S5. Block C** **O. Lychak, L. Lyubchyk**	**S5. Block G** **L. Dubchak, Y. Bodyanskiy**
11:00 - 11:30	**Coffee break**					
11:30 - 13:00	**S1. Block E** **M. Dyvak, V. Manzhula**	**S2. Block C** **O. Liashenko, I. Sysoieva**	**S2. Block G** **N. Pochynok, S. Spivak**	**S4. Block E** **M. Andriychuk, O. Ivakhiv**	**S5. Block D** **L. Lyubchyk, O. Lychak**	**S5. Block H** **Y. Bodyanskiy, L. Dubchak**
13:00 - 14:00	**Lunch**					
15:00 - 20:00	**Excursion**					
Friday, 04.09.2026						
8:00 - 9:00	**Coffee break**					
9:00 - 11:00	**S1. Block F** **V. Manzhula, M. Dyvak**	**S2. Block D** **I. Sysoieva, O. Liashenko**	**S3. Block C** **L. Dostálek, B. Adamyk**	**S4. Block F** **O. Ivakhiv, M. Andriychuk**	**S5. Block E** **I. Turchenko, W. Dorner**	**S5. Block I** **V. Tymchushyn, N. Porplytsya**
	S7. Poster Section (A. Melnyk, R. Shevchuk)					
11:00 - 11:30	**Meeting of the Board (Room 51/220)**					
11:45 - 12:15	**Closing Ceremony (Room 51/107 \ Zoom 7)**					

Section ID	Section title
S1	Computational Intelligence and Mathematical Modelling
S2	Information in Economy and Management
S3	Cyber Security
S4	Specialized Information and Computer Systems
S5	Artificial Intelligence and Cognitive Systems
S6	Information Technology in Education

All schedules of the Conference are based on Central European Summer Time

ADDRESS OF THE CONFERENCE

Tomas Bata University in Zlín, Faculty of Applied Informatics
Nad Stráněmi 4511, 760 05 Zlín, Czech Republic

PARTICIPANTS INSTRUCTION

The conference will be held in a hybrid format.
Online participation will take place via Zoom. The software will install automatically the first time you use it by clicking the link to the Zoom address. Download and installation guides are also available at the official website: zoom.us.

The conference sessions will be hosted in the following Zoom meeting rooms.

Name	Zoom address	Meeting-ID	Passcode
Zoom 1	https://wunu-edu-ua-ternopil.zoom.us/my/room1	339 812 3203	2025
Zoom 2	https://wunu-edu-ua-ternopil.zoom.us/my/room2	936 448 8755	
Zoom 3	https://wunu-edu-ua-ternopil.zoom.us/my/room3	557 583 2940	
Zoom 4	https://wunu-edu-ua-ternopil.zoom.us/my/room4	228 709 3261	
Zoom 5	https://wunu-edu-ua-ternopil.zoom.us/my/room5	775 106 2814	
Zoom 6	https://wunu-edu-ua-ternopil.zoom.us/my/room6	997 720 1402	
Zoom 7	https://wunu-edu-ua-ternopil.zoom.us/my/room7	346 587 8208	

TIME LIMITS

Presentation format: 7-10 minutes, presented online (Zoom) or in person.
Poster presentation: Only in person.
Discussion: 5 minutes after each presentation.

OPENING CEREMONY

Wednesday, 2 September **10:00 - 10:45**
Location: Zoom 7 / Room 51/107

Welcome Speech and Participants Congratulation

CLOSING CEREMONY

Friday, 4 September **11:45 – 12:15**
Location: Zoom 7 / Room 51/107

Concluding reports by Section Chairs, conference summary, and conference closing.

S1: Computational Intelligence and Mathematical Modelling. Block A

Date: Wednesday, 2 September 2026, 11:00 – 13:00
Session Chairs: Prof. Volodymyr Stepashko, Prof. Serhii Lupenko
Location: Zoom 1 / Room 51/107

1. *Adam Dudáš*. Semantic Causal and Correlation-Causal Graphs based on Large Language Model Relationship Evaluation
2. *Alina Shafronenko, Yevgeniy Bodyanskiy, Yevgeniy Shafronenko, Diana Rudenko, Oleksii Tanianskyi*. Stacked Self-Learning Adaptive System for Fuzzy Clusterization of Data Streams Under the Condition of an Unknown Number of Classes
3. *Andrii Sliusar, Sergii Khlamov, Sofiia Khrustalova, Andrii Frolov, Kirill Khrustalev, Yuri Romanenkov*. Kalman Filter-Based Algorithm for Improving RFID Tag Localization Accuracy in Wireless Sensor Networks
4. *Andriy Bomba, Serhii Kashtan, Olexa Kushnir*. Mathematical Modeling of Quasi-Potential Flows in Reservoirs with Submerged Sources
5. *Volodymyr Simakhin, Danylo Lakhtyr, Oleksandr Volkov, Roman Tymchyshyn*. Assessment of Detection Ranges of Small UAVs of Flying Wing Type by Anti-drone Radar
6. *Yevheniya Savchenko-Syniakova, Volodymyr Stepashko, Serhiy Yefimenko*. Implementation and Application of the Metamodel of Model Classes in GMDH Algorithms
7. *Inna Nezbrytska, Natalia Ivanova, Nataliia Semeniuk, Yevheniya Savchenko-Syniakova, Volodymyr Stepashko*. Inductive Modeling the Relationship Between Physicochemical Water Indicators and Intensive Phytoplankton Blooms in the Kaniv Reservoir (Dnipro River, Ukraine)
8. *Oleh Zolotukhin, Yevgeniy Bodyanskiy, Maryna Kudryavtseva, Daria Shchetynina, Yevhenii Yeriemieiev, Volodymyr Stryzhakov*. Using Machine Learning Methods to Detect Suspicious Activity in Restricted Data Transmission Systems

S1: Computational Intelligence and Mathematical Modelling. Block B

Date: Wednesday, 2 September 2026, 14:00 – 15:30
Session Chairs: Prof. Serhii Lupenko, Prof. Volodymyr Stepashko
Location: Zoom 1 / Room 51/107

1. *Denys Halapsis, Andrii Topalov, Anatolii Nadtochyi, Victor Nadtochii, Oleksandr Maidanyk, Volodymyr Yarmolenko*. Modeling a Compact Omnidirectional Dipole Antenna for 0.9 GHz in IoT Sensor Networks
2. *Galya Georgieva-Tsaneva*. A Hybrid Model for Realistic Heart Rate Variability Simulation Based on Physiological, Stochastic, and Fractal Dynamics
3. *Pushpendra Tripathi, Aditya Sharma, Himani Sharma, Vyomika Singh*. Quantization-Induced Accuracy Degradation in Small Language Models: A Parametric Scaling Analysis

4. *Igor Stadnyk, Antin Shuvar, Iryna Belova, Ulyana Tkach, Oleksiy Yaroshchuk*. A CFD-PBM Computational Framework for Modelling Dispersed-Phase Dynamics in Rotating Extraction Systems
5. *Ihor Kosovych, Igor Cherevko, Dmytro Shkilniuk*. Analysis of Epidemic Dynamics under Social Distancing and Mobility Restrictions Using Agent-Based Modeling
6. *Beyza Ertuğrul, Erhan Akın, Muhammed Tekbaş*. Noncontact Tension Estimation in Carbon Fiber Yarns Using Machine Vision and Spectral Analysis

S1: Computational Intelligence and Mathematical Modelling. Block C

Date: Wednesday, 2 September 2026, 16:00 – 18:00
Session Chairs: Prof. Nataliia Dziubanovska, Prof. Roman Yuzefovych
Location: Zoom 1 / Room 51/107

1. *Iurii Lukianchenko, Karina Semchenko*. Hybrid Fourier–ARIMA Approach for Forecasting Time Series of Permanent GNSS Stations
2. *Ivan Borysenko, Dmytro Chumachenko*. Comparative Performance Analysis of Predictive Modelling for Pertussis Incidence in Ukraine: A Case Study of Structural Breaks in Emergency Conditions
3. *Krzysztof Górecki, Łukasz Łatwis*. Modeling an Influence of the Operating Frequency of a Bidirectional Buck-boost DC-DC Converter on its Energy Efficiency
4. *Luca Olivari, Ivana Beljo*. Line-Rate Negotiation Between Cycling Ports: A Product Markov Chain Model
5. *Luka Kadyntsev, Oleksii Vasyliev, Oleksii Bychkov, Volodymyr Petrivskyi, Anastasiia Nikolaienko*. An Algorithmic Approach to Evaluating Emotional Content and Trends in News Articles
6. *Nataliia Dziubanovska, Anatoliy Sachenko, Leonid Bytsyura, Ruslan Chornyi, Anna Ivanova*. An Intelligent GIS-Based Model for Assessment and Classification of Surface Water Quality Using Hydrochemical Monitoring Data
7. *Nataliia Dziubanovska, Dmytro Hural*. Data-driven Modeling of Solar Photovoltaic Capacity in EU Countries and Ukraine Based on Panel Time Series Analysis
8. *Nataliia Dziubanovska, Vadym Maslii, Ivan Tsegelnyy*. Digital Transformation and Foreign Direct Investment: Evidence of a Time-Lagged Relationship

S1: Computational Intelligence and Mathematical Modelling. Block D

Date: Thursday, 3 September 2026, 9:00 – 11:00
Session Chairs: Prof. Roman Yuzefovych, Prof. Nataliia Dziubanovska
Location: Zoom 1 / Room 51/107

1. *Mykola Dyvak, Nataliia Petryshyn, Oleksandr Papa, Volodymyr Shpak, Yurii Maslyiak*. Hourly Solar Power Generation Modeling Considering Weather Conditions

2. *Mykhailo Tovtyn, Oleksandr Mitsa, Oleksandr O. Kondrat, Vasyl Petsko, Oleksandr B. Kondrat, Volodymyr Mitsa*. Web-Based Modeling of Multilayer Optical Filters with Refractive Index Dispersion Reconstruction
3. *Mykhaylo Andriychuk, Victor Tkachuk*. Optimization of the Quasioptical Line
4. *Mykola Mormul, Alexander Shchytov, Dmytro Shchytov, Lyubov Romanchuk*. Computational Intelligence–Driven Multi-Objective Optimization of Rib-Stiffened Composite Panels under Combined Loading Conditions
5. *Mykyta Monastyrskyi, Leonid Lyubchyk*. Interference Reduction in Music Source Separation through Recurrent Inference with Deep Neural Network Models
6. *Natalia Porplytsya, Iryna Stasiv, Mykhailo Shpintal, Vadym Nadvynychnyy, Ruslan Rozum, Roman Bashutskyy*. PON Network Infrastructure Expansion Planning Using Swarm Intelligence Algorithms
7. *Maksym Zaliskyi, Oleksandr Solomentsev, Ivan Yashanov*. Nonparametric Statistical Classification Procedures in Aviation Radio Equipment Operation Systems
8. *Maksym Zaliskyi, Roman Odarchenko, Oleksandr Lavrynenko, Alla Pinchuk, Anzhelika Kokarieva, Lesia Khomenko-Semenova*. Approaches to Accuracy Improvement for Regression-Based Models

S1: Computational Intelligence and Mathematical Modelling. Block E

Date: Thursday, 3 September 2026, 11:30 – 13:00
Session Chairs: Prof. Mykola Dyvak, Prof. Volodymyr Manzhula
Location: Zoom 1 / Room 51/107

1. *Mykhailo Kasianchuk, Pavlo Basistyi, Iryna Humovska, Serhii Mokhun, Pavlo Chopyk, Iryna Belova*. Mathematical Model of the Magnetic Properties of Thin Ferromagnetic Films
2. *Nazar Prytula, Yaroslav Pyanylo, Nazariy Lopukh, Myroslav Prytula, Zoia Prytula, Olga Khymko*. Methods for Researching the Efficiency of Modernizing Underground Gas Storage Facilities
3. *Nazariy Lopuh, Myroslav Prytula, Zoia Prytula, Yaroslav Pyanylo, Nazar Prytula, Olga Khymko*. Application of Operator Learning for Parametric Simulation of Gas Flow in Underground Storage Systems
4. *Oksana Ostrovska, Volodymyr Hura, Vasyl Lyashkevych*. Measuring the Invisible War: Metrics for Quantifying Information-Psychological Operations on Telegram
5. *Oleg Barabash, Andriy Makarchuk, Oleh Vorobiov, Mykola Myroniuk, Oleksii Maistrov, Hennadii Mylnykov*. An Estimation of Abel-Poisson Operator's Parameters in a Case of Use of its Interpolation Analogues for Approximation
6. *Oleg Riznyk, Yurii Kynash, Mariia Semeniv, Roman Soltysik*. Non-Equidistant Ray Tracing for High-Performance 3D Rendering Applications

S1: Computational Intelligence and Mathematical Modelling. Block F

Date: Friday, 4 September 2026, 9:00 – 11:00
Session Chairs: Prof. Volodymyr Manzhula, Prof. Mykola Dyvak
Location: Zoom 1 / Room 51/107

1. *Oleg Zhulkovskyi, Inna Zhulkovska, Natalia Nebaba, Olena Huliesha, Victoria Kostenko, Vladyslav Riabovolenko*. Enhancing Numerical Modeling Performance via Parallel TDMA Implementations
2. *Oleg Zhulkovskyi, Inna Zhulkovska, Rolandas Urbonas, Hlib Vokhmianin, Roman Klimov, Mikhail Kashcheev*. Intelligent Prediction of Thermal Regimes in Engineering and Technological Systems
3. *Danylo Kondratiuk, Volodymyr Kazymyr*. A Hybrid Model of Interaction Between IoT and ERP Systems in the Context of Industry 4.0
4. *Oleksandr Andreykiv, Iryna Dolinska, Taras Skalskyy, Olha Peliushkevych, Ihor Kuz, Roman Pavlius*. Mathematical Modeling of the Durability of Energy Equipment Elements Considering the Aging of Their Material
5. *Oleksandr Chaban, Volodymyr Hladun*. Preventing Control Loss in Stochastic Environments: Recurrent Proximal Policy Optimization with Conditional Value at Risk
6. *Oleksandr Kindzerskyi, Yurjj Lozovyk, Jan Owedyk, Piotr Pikiewicz, Volodymyr Rak*. Structural and Parametric Identification of Electromechanical Systems using Artificial Bee Colony Algorithm
7. *Oleksandr Krasnokutskyi, Igor Cherevko, Inessa Krasnokutska*. Numerical Simulation of Approximation Schemes for Differential-Difference Equations
8. *Oleksandr Romanyuk, Yevhen Zavalniuk, Oleksii Bobko, Oleksandr Novoseltsev, Oleksandr Reshetnik*. Energetically-Correct Cosine-Quadratic Illumination Model

S1: Computational Intelligence and Mathematical Modelling. Block G

Date: Wednesday, 2 September 2026, 11:00 – 13:00
Session Chairs: Prof. Igor Grebennik, Dr. Wiesława Gryncewicz
Location: Zoom 2 / Room 51/108

1. *Olena Rayevnyeva, Kostyantyn Stryzhychenko, Olha Brovko*. Structural Channels of the Impact of Higher Education on Economic Development: Empirical Evidence Based on the Granger Causality Test and SVAR Analysis
2. *Olga Ivanets, Rimvidas Khrashchevskyi, Maryna Arkhyrei, Nataliia Bilak, Larysa Chubko, Vadym Sviezhenets*. Information Technologies for the Study of Complex Dynamic Systems
3. *Olha Sushchenko, Nazar Yakuboskyi, Mykola Dyvnich*. Modelling of Controlled Flight on Trajectory for Holonomic and Nonholonomic UAVs
4. *Olha Sushchenko, Yurii Melnyk*. Modelling of Multimode Inertial Navigation System with Stabilized Platform

5. *Igor Grebennik, Oleksandr Obydalo, Tetyana Romanova, Sergiy Shekhovtsov, Inna Urniaieva*. Fast Heuristics for Sparse Circle Packing
6. *Sam Guessoum, Naima Boukhiar*. UPMO: An Uncertainty-Aware Predictive Multi-Objective Optimization Framework for Smart Agriculture
7. *Sanjeev Sharma, Pradeep Singh Rawat*. Optimal Cloud Resource Allocation using Neural-Inspired Zebra Optimization Approach
8. *Serhiy Sveleba, Ivan Katerynchuk, Ivan Kuno, Volodymyr Brygilevych, Nazar Sveleba*. Influence of Input Dimension on the Fractal Structure of Dynamic Training Regimes in Multilayer Neural Networks

S1: Computational Intelligence and Mathematical Modelling. Block H

Date: Wednesday, 2 September 2026, 16:00 – 18:00
Session Chairs: Dr. Wiesława Gryncewicz, Prof. Igor Grebennik
Location: Zoom 2 / Room 51/108

1. *Stanislav Pohorielov, Olena Akhiiezer, Oleksiy Galuza, Maksym Tatariants, Vladyslav Kolbasin, Iryna Serdiuk*. Hybrid FSIR Model with Parameter Embedding via Machine Learning
2. *Victor Shchyrba, Tetiana Pylypiuk, Mykola Shynkaryk*. Mathematical Modeling of Combined Vessel Loading–Unloading Operations by a Group of Quay Cranes in a Stochastic Environment
3. *Bartosz Szczęsny, Wiesława Gryncewicz*. Quantum Value Equation: A Minimal Decision Model for Quantum-Assisted Oncology Drug Discovery Assessment
4. *Oleksandr Volkov, Mykola Komar, Ihor Popov, Dmytro Volosheniuk, Volodymyr Simakhin, Serhii Bondar*. Computation of Aerodynamic Coefficients of the Mathematical Model of a Mini-class Unmanned Aerial Vehicle
5. *Yasser Abo Sway, Mohammed Kamila, Manar Abu Tali*. Comparative Review of Hydrological and Hydraulic Models for Urban Flood Simulation
6. *Yevhenii Kozmin, Oleksandr Sliusarenko, Dmytro Kucherov*. Centroid Method of Cluster Control for a Group of Mobile Robots for Collision Avoidance
7. *Yurii Turbal, Andriy Bomba, Oleksandr Kubai, Ganna Shlihta, Mariana Turbal*. Adaptive Forecasting Algorithm Based on The Averaged Polynomial Extrapolation Sequence
8. *Zakhar Listiev, Igor Moroz*. Hybrid Physics-Informed Modeling for Semiconductor Electronics Problems

S2: Information in Economy and Management. Block A

Date: Wednesday, 2 September 2026, 14:00 – 15:30
Session Chairs: Prof. Artur Rot, Prof. Olena Ptashchenko
Location: Zoom 2 / Room 51/108

1. *Alina Zhukovska, Valentyna Panasyuk, Oksana Chereshnyuk, Vadym Schuchmann, Volodymyr Andruntsiv, Anastasiia Punda*. Fuzzy Logic-Based Audit of the Inclusive Development in Territorial Communities
2. *Alla Okhrimenko, Marharyta Boiko, Myroslava Bosovska, Nadiia Vedmid, Mariia Kulyk*. Transformation of the Revenue Structure of Small and Medium-Sized Enterprises under the Expansion of Digital Platforms and Information Technologies
3. *Bakhodir Begalov, Azizjon Bobojonov, Shakhboz Djanadilov*. Digital Transformation of Official Statistics in Uzbekistan: Architecture and Implementation of the e-Stat 4.0 Information System
4. *Bohdan Artym, Vasyl Pryimak, Zoriana Artym-Drohomyretska, Olga Holubnyk*. Modeling and Forecasting Human Capital Development in Ukraine Using Data Science Techniques
5. *Danail Stanev, Katia Rasheva-Yordanova, Nikolay Yanev, Valentin Georgiev*. Criteria for Evaluating Effectiveness in Automated Customer Service in the Insurance Business
6. *Katarzyna Brodniak, Ewa Walaszczyk, Artur Rot, Marcin Hernes*. AI-Driven Detection of Glomerular Diseases and Automated Clinical Reporting: A System Prototype

S2: Information in Economy and Management. Block B

Date: Thursday, 3 September 2026, 9:00 – 11:00
Session Chairs: Prof. Olena Ptashchenko, Prof. Artur Rot
Location: Zoom 2 / Room 51/108

1. *Hrvoje Budić*. Data-Driven Consumer Profiling of Electric Car Purchase Intention in Croatia: A Cluster Analysis
2. *Tetiana Polozova, Iryna Sheiko, Serhii Stepanenko, Stanislav Ponomarov, Oleksandr Potii, Olena Peresada*. Digitalization and Labour Market Development: an International Perspective
3. *Elisaveta Trichkova-Kashamova, Kamelia Ivanova*. A KPI-based Risk Assessment Model for Managing Activities and Resources on Farms
4. *Lesia Buiak, Serhii Matiukh, Viktor Lopatovskyi, Volodymyr Dzhulii, Liudmyla Yemchuk, Larysa Dzhulii*. Development of an Enterprise Accounting System Under the Conditions of Digitization and the Information Society Establishment

5. *Lesia Buiak, Volodymyr Dzhulii, Nataliia Ponomarova, Valentyna Bobrovnyk, Lesia Bilorusets, Liudmyla Yemchuk*. Digitalization as a Tool for Forming Accounting and Analytical Support for Managing the Efficiency of Production Equipment Use
6. *Minh Sang Vo, Quyen Vo Phuong Le, Hang Yen Vo, Huu Duy Nguyen, Huong Hong Nguyen, Hung Tan Nguyen*. The Impact of Leadership Capacity and Financial Capacity on the Digital Transformation Intention of Logistics Enterprises
7. *Iryna Belova, Oleksiy Yaroshchuk, Antin Shuvar*. Modelling Nonlinear Climate-Economic Interactions in Food Security: An Explainable Machine Learning Approach for Early Warning Systems
8. *Iryna Maksymova, Vitalina Kuryliak, Mariia Lyzun, Ihor Lishchynskyy, Maksym Kuryliak*. Data-driven Climate Innovation through Global Eco-Digital Supply and Demand

S2: Information in Economy and Management. Block C

Date: Thursday, 3 September 2026, 11:30 – 13:00
Session Chairs: Prof. Olena Liashenko, Prof. Inna Sysoieva
Location: Zoom 2 / Room 51/108

1. *Oksana Liashenko, Oleksandr Dluhopolskyi, Lesya Kolinets, Olena Ptashchenko, Oleksandr Bychko, Alina Kram*. Multi-Scale Cyclical Architecture of Cryptocurrency Markets: EMD–Fourier Comparative Analysis of Bitcoin and Ethereum
2. *Oksana Liashenko, Oleksandr Dluhopolskyi, Nadiia Artyukhova, Anzhela Ignatyuk, Tetiana Zatonatska, Viktor Shpyrko*. Predicting Trade Disruption Effects on Sustainable Development Using Ensemble Machine Learning: Evidence from EU Sanction Regimes
3. *Oksana Liashenko, Oleksandr Dluhopolskyi, Artem Artyukhov, Tetiana Zatonatska, Maksym Lavrentiev, Tetiana Dluhopolska*. Nonlinear Effects of Digital Governance on Sustainable Development: Panel Threshold Analysis for EU Member States
4. *Oksana Polinkevych, Olena Kuzmak, Oleh Kuzmak*. Digital Competence of Academic Staff as a Driver of Internationalization and Quality Assurance in Higher Education: Evidence from Ukrainian Universities
5. *Nataliia Krivokulska, Alina Zhukovska, Vasyl Brych, Yurii Bohach, Igor Vons, Andrii Smoliarov*. Computational Modeling and Forecasting of Environmental Policy Indicators in the Context of Sustainable Development
6. *Viacheslav Dzhedzhula, Iryna Yepifanova*. Dynamic Mathematical Model of Organizational Intellectual Capital Incorporating Synergy, Risk, and Optimal Budget Allocation

S2: Information in Economy and Management. Block D

Date: Friday, 4 September 2026, 9:00 – 11:00
Session Chairs: Prof. Inna Sysoieva, Prof. Olena Liashenko
Location: Zoom 2 / Room 51/108

1. *Nataliya Synyutka, Oksana Kurylo, Oleksiy Poburko, Andriana Mazur*. Digitalization Versus VAT-fraud in Ukraine
2. *Zarina Poberezhna, Oleksandr Trukhan*. Modeling Business Resilience of Enterprise in Conditions of Uncertainty and Security Challenges
3. *Oksana Liashenko, Oleksandr Dluhopolskyi, Serhiy Kyrylenko, Roman Danylevskyi, Tetiana Dluhopolska, Oleksii Kurtsev*. EMD–Fourier Hybrid Decomposition of Global Food Price Signals: Multi-Scale Cyclical Patterns and Food Security Implications
4. *Inna Chaikovska, Inna Sysoieva, Yevhenii Rudnichenko, Nataliia Havlovska, Tatiana Nazarchuk*. Modelling the Impact of Peace-War Conditions on Economic Security: Evidence from Ukraine
5. *Inna Chaikovska, Inna Sysoieva, Yevhenii Rudnichenko, Nataliia Havlovska, Tatiana Nazarchuk*. Digital Efficiency of Startup Ecosystems: A Comparative Analysis of European Countries
6. *Inna Chaikovska, Inna Sysoieva, Yevhenii Rudnichenko, Nataliia Havlovska, Tatiana Nazarchuk*. Cyber-Economic Security Index of the State: Construction and Forecasting
7. *Inna Sysoieva, Borys Pohrishchuk, Yuliia Hrishchenko, Olena Tsikhanovska, Inna Chaikovska, Tetiana Bodnia*. The Synergy of the Circular Economy, Information Technologies, and Ecology in Sustainable Development
8. *Oleksiy Yaroshchuk, Iryna Belova*. Machine Learning-Based Multi-Objective Optimization of Bioenergy Systems: Evidence of Nonlinear Trade-Off Structures

S2: Information in Economy and Management. Block E

Date: Wednesday, 2 September 2026, 14:00 – 15:30
Session Chairs: Dr. Oksana Adamyk, Prof. Ihor Lishchynskyy
Location: Zoom 3 / Room 51/118

1. *Olena Liashenko, Oleksandr Artiushenko, Dmytro Zatonatskiy, Alim Syzov, Mariia Zozulinska, Serhiy Dyachenko*. CatBoost-Based Risk Identification in Defence Procurement: A Military-Economic Analysis of Public Spending
2. *Olena Rayevnyeva, Olha Brovko, Viktoriia Ostapenko*. Managing Structural Changes in the Higher Education System of Ukraine
3. *Olga Gonchar, Vasyl Brych, Serhii Moroz, Liudmyla Bohatchyk, Volodymyr Moroz*. The "War Factor" in Building an Econometric Model of Ukraine's Business Environment

4. *Pavlo Hryhoruk, Nila Khrushch, Svitlana Grygoruk, Inna Chaikovska*. Modeling the Development of the Digital Economy in Eastern European Countries: Comprehensive Assessment, Grouping, and Identification of Determinants
5. *Tetiana Borysova, Svitlana Khrupovych, Liudmyla Halko, Oksana Adamyk, Bogdan Adamyk*. Innovative Neuromarketing Approaches to Digital Marketing and Consumer Behaviour Analysis
6. *Rustam Mamatov, Ruslan Brukhanskyi, Oleksiy Yaroshchuk*. From Financial Metrics to System Value: Structural Transformation of Accounting in Energy and Bioeconomy Transitions

S2: Information in Economy and Management. Block F

Date: Thursday, 3 September 2026, 9:00 – 11:00
Session Chairs: Prof. Ihor Lishchynskyy, Dr. Oksana Adamyk
Location: Zoom 3 / Room 51/118

1. *Uyen Thi Thao Tieu*. The Effects of E-Logistics Factors on Customer Satisfaction and Online Repurchase Intention: Evidence from Young Consumers in Vietnam
2. *Sviatoslav Kniaz, Vasyl Brych, Nelli Heorhiadi, Sergey Shevchenko, Oksana Sternyuk, Ruslan Skrynkovskyy*. Information Systems for ESRS Reporting: An Analytical Model of Sustainability Data Management in Corporate Systems
3. *Sviatoslav Kniaz, Vasyl Brych, Nelli Heorhiadi, Oleksii Fedorchak, Khrystyna Peredalo, Ruslan Skrynkovskyy*. Software Solutions for HACCP Support in the Corporate Sector
4. *Pranaav Parthiban, Gayathri S Parthasarathy, Satya R Shah*. Harnessing Digitalisation for Sustainable Business Innovation
5. *Tetiana Cherkashyna*. Assessing and Forecasting the Macroeconomic Effects of Digital Transformation Based on a Hybrid Econometric–Machine Learning Framework: A Comparative Analysis of Ukraine and the Czech Republic
6. *Ihor Lishchynskyy, Andriy Krysovatyy, Oksana Desyatnyuk, Mariia Lyzun, Vitalina Kuryliak, Iryna Maksymova*. Measuring Glocalization in Europe
7. *Tetiana Zheliuk, Alina Zhukovska, Dmytro Shushpanov, Oleksandr Brechko, Viktor Ostroverkhov, Iryna Smachylo*. Scenario-Based Modelling of Life-Support Ecosystem Resilience Using Digital Tools
8. *Serhii Spivak, Tetyana Korolyuk, Olga Krause, Oksana Huhul, Halyna Zabchuk, Ievgen Bondarenko*. Adaptive Mechanisms for Foreign Economic Activity of Agri-food Enterprises in War-Torn Economies: An Integral Assessment Approach

S2: Information in Economy and Management. Block G

Date: Thursday, 3 September 2026, 11:30 – 13:00
Session Chairs: Dr. Nataliia Pochynok, Prof. Serhii Spivak
Location: Zoom 3 / Room 51/118

1. *Yuliya Voytsekhovska, Olexandr Yemelyanov, Olha Korytska, Oleh Karyy, Viktoriya Voytsekhovska*. Enhancing Enterprise Efficiency: The Role of Information Support in Implementing Resource-Saving Technological Changes
2. *Yuriy Nykytiuk, Vasyl Bunyak, Tetyana Moryak*. Using a Random Walk Model to Justify Technical Analysis of Expectations in Exchange Rate Dynamics
3. *Nataliia Pochynok*. Tokenisation of Digital Intangibles: A Framework for Repricing Misvalued Assets in Blockchain-Based Financial Systems
4. *Tetyana Korolyuk, Serhii Spivak, Nadya Synkevych, Bohdan Seniv, Viktor Rusin*. Transforming the Preparation and Submission of Electronic Reports in the Digital Economy
5. *Andrii Oliinyk, Liudmyla Huliaieva, Oksana Piankova, Yuliia Tunitska, Yuliya Demkiv, Tetiana Makarova*. ICT Industry and International Services Trade in Developing Economies: a Sectoral Regression Analysis
6. *Andrii Oliinyk, Tetiana Melnyk, Liudmyla Huliaieva, Ihor Chornodid, Maryna Slokva, Olena Kravchenko*. The Impact of ICT Industry on International Goods Markets in Developing Economies

S3: Cyber Security. Block A

Date: Wednesday, 2 September 2026, 11:00 – 13:00
Session Chairs: Dr. Bogdan Adamyk, Dr. Ruslan Shevchuk
Location: Zoom 3 / Room 51/118

1. *Andrii Holovatiuk, Oleg Savenko*. Intelligent Extraction of Static and Dynamic Invariants for Botnet Classification
2. *Andrii Nicheporuk, Maxim Prodeus, Andriy Drozd, Oleksii Lyhun, Olexandr Klein, Aleksandra Czupryna-Nowak*. Method for Detecting Denial-of-service Attacks based on Statistical Analysis of the Temporal Dynamics of Network Traffic
3. *Andrii Shudryk, Oleg Savenko, Galyna Liakhovych, Tetiana Kysil, Mariia Kapustian*. Experimental Integration of ML-KEM with Lattice PUF in BITW Encryptor
4. *Bogdan Adamyk, Ruslan Shevchuk, Vladlena Benson, Oksana Adamyk, Oksana Liashenko, Haider Al-Khateeb*. Detecting Suspicious Transactions in Blockchain Networks Using Temporal Graph AI
5. *Bohdan Semenuik, Anatoliy Sachenko, Bohdan Savenko*. Uncertainty-Aware Intrusion Detection: Selective Reclassification Using Error-Driven Auxiliary Models

6. *Bogdan Adamyk, Vladlena Benson, Oksana Adamyk, Ruslan Shevchuk, Bożena Fraczek, Vitaliy Shpachuk*. Preparing Blockchain Transaction Data for AI-Based AML Detection: A Reproducible Cloud Pipeline
7. *Marouane el Aatouani, Kamal el Guemmat, Abdelmajid Bousselham, Soulaimane Bahi, Mohamed Akram Hamdaoui*. Zero Trust Architecture in Healthcare: A Systematic Mapping Study
8. *Yevgen Kotukh, Maksym Korobchynskyi, Myhailo Rudenko, Andrii Honcharuk, Ihor Kiris, Vitalii Voitko*. Type Safe OCaml Bindings for the Open Quantum Safe Post-Quantum Cryptography Library

S3: Cyber Security. Block B

Date: Wednesday, 2 September 2026, 16:00 – 18:00
Session Chairs: Dr. Ruslan Shevchuk, Prof. Vasyl Yatskiv
Location: Zoom 3 / Room 51/118

1. *Dmytro Denysiuk, Lukasz Kopania, Bohdan Savenko, Pavlo Rehida, Oksana Onyshko*. Multimodal Method for Detecting Hidden Threats in Multimedia Objects Based on Cross-Modal Feature Alignment
2. *Imane Lotfi, Meriem Mandar*. Human-Aware Next-Generation SOCs: A Machine Learning–Based Decision Model for Sustainable Threat Detection and Prevention
3. *Juliy Boiko, Oleksander Eromenko, Olha Kravchenko, Olena Sipko, Lesya Karpova*. A Blockchain-Identity Based Cybersecurity Trust Concept for Inter-Device Interactions in IoT Ecosystems
4. *Kyrylo Voznyi, Bohdan Savenko, Antonina Kashtalian, Viktor Lysak*. Honeypot Placement for Joint Detection and Attacker-Type Inference: A Bayesian Stackelberg Formulation
5. *Tamara Radivilova, Lyudmyla Kirichenko, Oksana Mulesa, Ihor Dobrynin, Arkadii Snihurov, Vadym Pantelieiev*. Bayesian Hierarchical Temporal Model for the Early Prediction of Insider Threats
6. *Nazar Zaika, Maksym Komarov, Ihor Martyniuk, Pavlo Pavlenko, Olena Dzhyhun, Volodymyr Pavlikov*. Cybersecurity Governance with Monitoring, Incident Reporting, Supervision, and Regulatory Integration in Ukraine under NIS2
7. *Oleksandr Huralnyk, Bohdan Savenko, Svitlana Sachenko*. An Interpretable Impact Metric for Pre-Deployment Criticality Assessment of IaC Changes Based on Network State Transition Modeling
8. *Oleksandr Manzhai, Vitalii Nosov, Svitlana Luchyk, Vasyl Luchyk*. A Method for Monitoring Target Events

S3: Cyber Security. Block C

Date: Friday, 4 September 2026, 9:00 – 11:00
Session Chairs: Prof. Libor Dostálek, Dr. Bogdan Adamyk
Location: Zoom 3 / Room 51/118

1. *Oleksandr Martsenkov, Oleg Savenko*. Conceptual Model for Network Traffic Anomaly Detection in Computer Systems
2. *Oleksandr Melnychenko*. Hybrid PQ-OPAQUE: Fixed-Round Post-Quantum Reinforcement of OPAQUE via ML-KEM-768
3. *Oleksandr Syropiatov, Lidiya Tymoshenko*. Bio-to-Cyber Knowledge Transfer: NLP-Based Generation of IDS Rules from Medical Diagnostic Protocols
4. *Pavlo Oliinyk, Oleg Savenko*. Dual-channel Multi-level Model for the Quantitative Assessment of Data Security in Corporate Networks
5. *Roman Banakh*. Passive RSSI monitoring as Evil Twin attack detection in Wi-Fi Networks: Limitations and Challenges
6. *Sergii Lysenko, Tymur Isaiev, Tomas Sochor, Oleg Savenko, Nadiia Lysenko*. Adaptive Method for Mitigating the Impact of Cyberattacks on Information Systems
7. *Sergiy Gnatyuk, Zarina Poberezhna, Artem Polozhentsev*. Model for Assessing the Level of Investment in Cybersecurity of Critical Infrastructure Facilities from Hybrid Threats
8. *Serhiy Semenyuk, Tetiana Korobeinikova, Myroslava Skolozdra, Oleksandr Romanyuk, Oksana Romanyuk, Olexandr Reyda*. Neural Posterior Estimation for Stochastic Malware Propagation Models

S3: Cyber Security. Block D

Date: Wednesday, 2 September 2026, 14:00 – 15:30
Session Chairs: Prof. Vasyl Yatskiv, Prof. Libor Dostálek
Location: Zoom 5 / Room 51/219

1. *Solomiia Marchuk, Ihor Yakymenko, Mykola Shynkaryk, Nataliia Chudyk, Pavlo Basistyi, Mykhailo Kasianchuk*. Encryption Methods Based on Modulus Modification in the Residue Number System
2. *Vaidas Jurkevičius, Mariia Pleskach, Romanas Tumasonis*. Balancing Transparency, Cybersecurity, and Innovation: Technical and Legal Challenges of AI Regulation in the European Union
3. *Tetiana Korobeinikova, Oleh Sereda, Serhiy Semenyuk, Oleksandr Romanyuk, Natalia Titova, Sergey Romanyuk*. A Metrics-Based Method for Asset Criticality Assessment in Enterprise Network Security
4. *Tetiana Korobeinikova, Volodymyr Fedoruk, Serhiy Semenyuk, Oleksandr Romanyuk, Anatoly Snigur, Galina Chernovolik*. Intelligent Alert Analysis In A SOC

5. *Igor Golovko, Oleg Savenko, Serhii Svystun*. Ensemble Boosting-Based Source Code Obfuscation Using Deep Learning Models for .NET
6. *Yurii Klots, Nataliia Petliak, Vira Titova, Dmytro Tymoshchuk*. Modern Approaches to Detecting Cyberattacks in Software-defined Networks

S4: Specialized Information and Computer Systems. Block A

Date: Wednesday, 2 September 2026, 11:00 – 13:00
Session Chairs: Prof. Anatoliy Melnyk, Prof. Victor Melnyk
Location: Zoom 4 / Room 51/119

1. *Golam Mostafa Rabby, Abdul Owadud Raton, Raisuddin Tamim, Momotaz Begum, Ahnaf Atef Choudhury, Jia Uddin*. An IoT-Based Smart Juice Vending Machine with Glucose-Aware Sugar Customization for Diabetic Patients
2. *Andrii Myrhorodskyi, Oksana Romaniuk*. Comparative Simulation of Consistency Models in Distributed Database Systems
3. *Bohdan Chumachenko, Denys Bakhtiiarov, Serhii Chumachenko, Oleksandr Lavrynenko, Serhii Sova, Dmytro Kocherga*. Architecture and Data Routing Protocols for Heterogeneous IoT Systems in Difficult Terrains
4. *Bohdan Derysh, Lesia Dubchak, Anatoliy Sachenko, Nadiia Savka*. Multimodal Ground-Based SHM for Wind Turbine Blade Damage Detection and Early Warning
5. *Ebru Karaköse, Ömer Faruk Çelik*. Intelligent Cooperative Control for Multiple Unmanned Underwater Vehicles Using Classical Algorithms
6. *Emirhan Erdem, Mehmet Karakose, Kürşat İnce*. Network Intrusion Detection Using SNMP MIB Data: A Multi-Device Machine Learning Approach
7. *Vitalii Halamai, Viktor Melnyk*. Code and Change History Analysis for Information System Evolution: A Survey of Approaches
8. *Mykola Dyvak, Andriy Melnyk, Nataliia Petryshyn, Volodymyr Manzhula, Yurii Sokotov, Olha Chorna*. Ontology of Modeling Nitrogen Dioxide Pollution in the Ground-Level Atmosphere from Motor Vehicle Exhaust Emissions

S4: Specialized Information and Computer Systems. Block B

Date: Wednesday, 2 September 2026, 14:00 – 15:30
Session Chairs: Prof. Victor Melnyk, Prof. Anatoliy Melnyk
Location: Zoom 4 / Room 51/119

1. *Anatoliy Melnyk*. Abstract Structure of the Computational Process: Component and Identifier Spaces
2. *Ihor Prokofiev, Oleg Savenko*. A Model of Software Code Quality Analysis, Assessment, and Improvement System
3. *Illia Lutsyk, Dmytro Fedasyuk*. Combined Approach to Adaptive Software Reconfiguration based on Ontology and LLM
4. *Emre Güçlü, Oğuz Ergin, İlhan Aydın, Erhan Akın, Yunus Emre Uyanık*. An Explainable Multi-Camera Vision System for Automated Bolt Inspection

5. *Martin Köppel, Tobias Cronauer, Zekiye Ilknur-Öz, Sebastian Dubiel, Patrick Naumann, Philipp Neumaier*. A GitOps-Driven Annotation Catalog for Fully Automatic Railway Operations
6. *Juliy Boiko, Igor Parkhomey, Dmytro Zahorodnii, Dmytro Boiko, Alexander Shvydchenko*. Adaptive Trust Management Model for Specialized Information Systems of Investment Funds

S4: Specialized Information and Computer Systems. Block C

Date: Wednesday, 2 September 2026, 16:00 – 18:00
Session Chairs: Prof. Andriy Pukas, Dr. Iryna Voytyuk
Location: Zoom 4 / Room 51/119

1. *Mohamed Akram Hamdaoui, Abdelaziz Daaif, Mohamed Youssfi, Marouane El Aatouani, Soulaimane Bahi, Ouajih Ramzi*. Machine Learning-Enhanced Active Queue Management Algorithms: A Systematic Literature Review
2. *Ivan Ostroumov*. Recovery of Sideslip Angle and True Airspeed from ADS-B Trajectory Data Using Weather Integration
3. *Klaus Bayer, Wolfgang Dorner*. Lifecycle Governance Model for Modular Dual-Use Software Architectures
4. *Leonid Ozirkovskyy, Bohdan Volochii, Nazar Pryymak, Yurii Zhuk*. Assessing the Structural Survivability Indicator of a Heterogeneous Mission-Critical System with a Hierarchical Structure and Complex Subordination
5. *Arsenij Kroptya, Ihor Mykheliev*. LLM SQL Cross-Dialect Translation: Schema-Constitutive Reasoning and Mind Openers
6. *Iryna Voytyuk, Viktoriia Savitska, Lesia Bilovus, Iurii Shcherbiak, Miroslav Kopnický, Bohdan Zozuliak*. User Segmentation Model and Persona-Driven Requirements Engineering for a Digital Hub Supporting Ukrainian Diaspora
7. *Iryna Voytyuk, Andriy Pukas, Viktoriia Savitska, Dmytro Klimchyk, Mykola Koromysel, Viktor Sopiha*. Architecture of Specialized Educational and Cultural Platform for Ukrainians Abroad
8. *Nataliia Bahniuk, Petro Pekh, Serhii Voloshchuk, Liudmyla Hlynchuk, Lubov Dobrovolska, Lesya Fedik*. Efficiency of Smart Heating Module for Domestic Greenhouse

S4: Specialized Information and Computer Systems. Block D

Date: Thursday, 3 September 2026, 9:00 – 11:00
Session Chairs: Dr. Iryna Voytyuk, Prof. Andriy Pukas
Location: Zoom 4 / Room 51/119

1. *Nataliia Bahniuk, Valeriy Lishchyna, Vladyslav Charuk, Natalia Lishchyna, Liudmyla Hlynchuk, Kateryna Bortnyk*. Smart Heating System for Pets During Cold Season in Household
2. *Niyazi Furkan Bar, Mehmet Karakose*. The Role of Quantum Microservice Architectures in Overcoming Hardware Limitations in the NISQ Era

3. *Oleksandr Shportko, Andrii Bomba, Veronika Postolatii*. Accounting for the Two-Dimensional Nature of Images in Modifications of the LZ77 Dictionary Algorithm During Their Lossless Compression
4. *Oleksiy Polikarovskykh, Ihor Hula, Antonina Kashtalian*. Accelerating the MUSIC Algorithm via Tensor Computing in Multi-Antenna Direction-Finding Systems
5. *Olena Osharovska, Mykola Patlaienko, Yurii Karaush, Ivan Tomashevskyi, Oleksandr Hohniak*. A Novel Multi-Objective Approach to LPWAN Selection for Sustainable Smart City IoT
6. *Volodymyr Havryliuk*. Application of CNN-LSTM to Detect Excessive Signal Distortions in Cab Signaling System
7. *Roman Krepych, Mykola Dyvak, Andriy Pukas, Svitlana Krepych, Iryna Spivak, Oleksandr Yashchyk*. AI-Based FPV Drone System for Autonomous Tracking of Hazardous Environmental and Energy Objects
8. *Roman Yakymiv, Yurii Kynash, Mariia Semeniv, Natalya Kustra*. An Integrated AI and Computer Vision Framework for Real-Time Physical Exercise Assessment and Monitoring

S4: Specialized Information and Computer Systems. Block E

Date: Thursday, 3 September 2026, 11:30 – 13:00
Session Chairs: Prof. Mykhaylo Andriychuk, Prof. Orest Ivakhiv
Location: Zoom 4 / Room 51/119

1. *Seda Nur Güngör, Mehmet Karaköse*. Threshold-Based Adaptive Quantum Input Encoding for Variational Optimization of Weighted Max-Cut Problem
2. *Selen Gurbuz, Merve Canakci, Hasan Yetis, Mehmet Karakose*. An Effective Federated Learning Based Anomaly Detection Approach in Crowd Videos
3. *Sergii Lysenko, Nadiia Lysenko, Liudmyla Koretska, Artem Kachur, Tomas Sochor*. Architecture Framework for Quantitative Assessment of Virtual Reality System Resilience
4. *Sergii Yatsenko, Andrii Topalov, Oleksandr Serbul, Anatolii Matsui, Volodymyr Dyvak, Tetyana Tomashevska*. Computerized Water Treatment Plant System with Machine Learning-Based Quality Indicator Prediction
5. *Svitlana Pavlova, Oleksandr Lysenko, Olena Tachinina, Yevhenii Tymofeiev, Valerii Chepizhenko*. Method for Applying MIMO Technology to Data Collection in Mobile Sensor Networks
6. *Orest Ivakhiv, Ruslan Kopot, Oleksiy Didkovskyy, Volodymyr Nychyporuk, Rostyslav Deyneka, Dmytro Puyda*. Creation of a Hand Prosthesis

S4: Specialized Information and Computer Systems. Block F

Date: Friday, 4 September 2026, 9:00 – 11:00
Session Chairs: Prof. Orest Ivakhiv, Prof. Mykhaylo Andriychuk
Location: Zoom 4 / Room 51/119

1. *Valentyna Pleskach, Yaroslav Zhyliuk*. Impact of Data Incompleteness on Anomaly Detection Quality in Distributed Real-Time Systems

2. *Iryna Borysenko, Andrii Gizun, Kateryna Petrenko, Natalia Skorobogatova, Tetiana Ivanova*. System of Monitoring and Environmental Control of Dangerous Goods Transport
3. *Vladimir Barannik, Evgeniy Eliseev, Kyrylo Revva, Yurii Babenko, Vladyslav Kostromytskyi, Oleh Hromyko*. Method for Video Data Recovery to Improve Integrity Based on Spectral-Parametric Reconstruction
4. *Tomáš Vogeltanz*. Design of SOLID Interaction and Information Systems in Video Games
5. *Volodymyr Volovetskyi, Andrii Bugai, Serhii Altukhov, Yulia Romanyshyn, Vasyl Sheketa, Yevhen Sokolov*. Software Tools for Gas Flow Modeling and Visualization in Underground Gas Storage Facilities Infrastructure
6. *Yaroslav Tsapiv, Andriy Pukas, Yurii Petrovskyi, Dariya Popovych, Taras Dyvak, Inna Sysoieva*. AR-based System for Shoulder-Joint Rehabilitation with Markerless Measurement of Ranges of Motion and a Recommendation Module for Correction of Therapeutic Images
7. *Andrii Simak, Inna Sysoieva, Oleh Vatslavskyi, Nataliia Chudyk, Vitalii Kobytsia, Vladyslav Ivanyna*. Multi-Variant Recommendation Module for Improving the Activities in the Academic Staff Performance Appraisal System
8. *Nermin Kartli*. A Pool-Based Hybrid Genetic Algorithm with Local Search for Electric Vehicle Charging Scheduling

S5: Artificial Intelligence and Cognitive Systems. Block A

Date: Wednesday, 2 September 2026, 11:00 – 13:00
Session Chairs: Prof. Volodymyr Lytvynenko, Dr. Mariia Voronenko
Location: Zoom 5 / Room 51/219

1. *Aditya Sharma, Pushpendra Tripathi, Vyomika Singh, Himani Sharma*. A Conditional Denoising Diffusion Probabilistic Framework for Synthetic Data Augmentation for Thoracic Disease Classification
2. *Ahnaf Atef Choudhury, Shahriar Siddique Ayon, Md. Ebrahim Hossain, Abdullah Al Mamun*. Explainable AI for Mental Health Prediction in Drug-Affected Populations with Dragonfly Algorithm and GAN Oversampling
3. *Andreas Lindner*. Enhancing Domain-Specific ASR via Dual-Stage RAG-Based Context Injection
4. *Andriy Pukas, Vitalii Smal, Serhii Tyran, Stepan Sushko, Andrii Holovach, Khrystyna Pukas*. Motor Intention Recognition from EEG Signals for Augmented Reality-Based Upper-Limb Rehabilitation
5. *Mariia Voronenko, Volodymyr Lytvynenko, Jan Krejci, Svitlana Vyshemyrska, Volodymyr Manzhula, Andry Zasidko*. Static Bayesian Network in the Air Transport Modeling Problem
6. *Mykola Dyvak, Volodymyr Tymets, Andriy Dyvak, Viktor Shidlovsky, Andrii Matsuk, Nadiia Khoma*. Mel Spectrogram and Mel-Frequency Cepstral Coefficients Audio Features of Machine Learning in the Task of Recurrent Laryngeal Nerve Identification

7. *Mykola Dyvak, Volodymyr Koval, Andriy Pukas, Andriy Melnyk, Vitalii Mykytiuk, Lyudmyla Honchar*. Chemical Pollution in Ukraine under Military Actions: Framework for Integrated Environmental Monitoring
8. *Kostiantyn Verhun, Mykola Dyvak*. Lightweight Visual Servoing on a Betaflight FPV Drone for Ecological Field Application

S5: Artificial Intelligence and Cognitive Systems. Block B

Date: Wednesday, 2 September 2026, 16:00 – 18:00
Session Chairs: Dr. Mariia Voronenko, Prof. Volodymyr Lytvynenko
Location: Zoom 5 / Room 51/219

1. *Bohdan Derysh, Bohdan Rusyn, Lesia Dubchak*. Adaptive Digital Twin with LSTM-Based Forecasting and Model Predictive Control for Biogas Production Optimization
2. *Ekaterina Popovska, Galya Georgieva-Tsaneva, Dobromir Slavov*. Comparative Analysis of Deep Learning Models for ECG Classification
3. *Emre Güçlü, Elif Sara Han, Erhan Akın, Buğra Kara*. A Deep Learning-Based Patch Classification Approach for Metal Surface Defect Detection: A Multi-Model Comparison
4. *Esra Balık, Mehmet Kaya*. Parameter-Efficient Fine-Tuning of InstructBLIP for Medical Visual Question Answering
5. *Faruk Özgür, Taner Tuncer, İbrahim Rıza Hallaç, Mehmet Kaya*. Analysis of the Recall Crisis and Semantic Robustness of LLM Detectors Under Hierarchical Deep Adversarial Rewriting Attacks
6. *Ferdaus Ibne Aziz, Gudeta Becky Firomssa, Daniel Ojeda Rosales, Ahnaf Atef Choudhury, Jia Uddin*. Deep Audio Analytics for Smart Cities: Multi-Class Vehicle Type Detection and Binary Congestion Estimation
7. *Olena Syrotkina, Ziad Kobti, Mykhailo Aleksieiev, Borys Moroz, Dmytro Moroz, Iryna Udovyk*. A Statistical Method for Analyzing the Distribution of Student Knowledge Levels
8. *Rustem Izmailov, Olena Syrotkina, Xiaobu Yuan, Xiuming Hao*. Short-Term Greenhouse Climate Forecasting Using Data-Driven Surrogate Models and a Control-Oriented Digital Twin

S5: Artificial Intelligence and Cognitive Systems. Block C

Date: Thursday, 3 September 2026, 9:00 – 11:00
Session Chairs: Prof. Oleh Lychak, Prof. Leonid Lyubchyk
Location: Zoom 5 / Room 51/219

1. *Hivda Hezer, Irfan Kilic, Orhan Yaman*. Odor Classification Under Drift Problem in Gas Sensor Arrays: A Random Forest-Based Evaluation
2. *İlayda Kaya, Eda Çetin, Özlem Sönmez, Kübra Erat, Pınar Onay Durdu, Sevinç İlhan Omurca*. Channel Optimization for EEG-Based Emotion Recognition
3. *Illia Dagil, Iryna Vergunova*. Aggregating Duplicate Edges in Text-Derived Knowledge Graphs

4. *Illia Parkhomenko, Alisa Khomenko, Anzhelika Parkhomenko, Valeriy Dubrovin, Andriy Parkhomenko, Carsten Wolff*. Research and Development of an Intelligent Assistant for Planning a Lean IT Startup
5. *Mariia Stadnyk, Taras Trush, Dmytro Tymoshchuk, Vasyl Vasylkiv, Volodymyr Dmytriv, Aizhan Tokkuliyeva*. Hybrid Deep Learning Model for Rumor Detection in Social Media
6. *Berdan Mut, Irfan Kilic, Orhan Yaman*. Real-Time Waste Classification Using EfficientNet-B3 with Advanced Data Augmentation and Transfer Learning
7. *Ebru Koçdor, Furkan Göz*. Comparative Analysis of Embedding, LLM, and RAG-Based Approaches for OOD Intent Detection
8. *Efe Buyuk, Ahmet Sayar*. Toward Weakly Supervised Interview Extraction in Broadcast Media: A Distributed Multimodal Framework

S5: Artificial Intelligence and Cognitive Systems. Block D

Date: Thursday, 3 September 2026, 11:30 – 13:00
Session Chairs: Prof. Leonid Lyubchyk, Prof. Oleh Lychak
Location: Zoom 5 / Room 51/219

1. *Joshua Heisler, Andreas Fischer*. Historical Artifacts Do Not Measurably Improve Knowledge Graph-Augmented Issue Resolution
2. *Jennifer P. Pilante, Jesus Paguigan*. Smart Vision-Based Inventory System for Real-Time Sack Monitoring and Predictive Stock Optimization
3. *Jiří Jelínek*. AI Agent with Model Selection, Tool Synthesis, and Proactive Knowledge Base Management
4. *Kadir Kesimal, Hikmetcan Özcan*. Addressing Class Imbalance in Skin Lesion Classification using Swin Transformer: A Progressive Ablation Study on ISIC 2019
5. *Natalia Porplytsya, Mykhailo Shpintal, Yevgeniya Martsenyuk, Iryna Stasiv, Dmytro Chyr, Andrii Dankiv*. Software System for Perceptual Validation of Web Accessibility Based on Computer Vision and Optical Character Recognition
6. *Loubna Aminou, Abdelaziz Daaif, Maha Soulami, Mohamed Youssfi*. Measuring Position Bias in LLM-as-a-Judge for Hiring

S5: Artificial Intelligence and Cognitive Systems. Block E

Date: Friday, 4 September 2026, 9:00 – 11:00
Session Chairs: Dr. Iryna Turchenko, Prof. Wolfgang Dorner
Location: Zoom 5 / Room 51/219

1. *Maksym Matkovskyi, Iryna Spivak, Svitlana Krepych, Matvii Spivak, Nataliia Chudyk, Andrii Kolesnikov*. Intelligent Recommendation Engine for Vacancy-Resume Matching Using Hybrid ML Methods
2. *Merve Yilmazer Gundem, Mehmet Karaköse*. LLM-Based Hybrid Test Scenario Generating Model for Autonomous Driving Systems
3. *Mohamed Sraitih, Mohamed El Moutaouadia El Idrissi, Guillaume Besch, Romain Bronnert, Amir Hajjam El Hassani*. Pairwise Pain Intensity Classification from Multimodal Biosignals: Evaluating Sensor Fusion Across Physiological Modalities

4. *Mykhailo Khymchuk, Andriy Pukas, Svitlana Krepych, Iryna Spivak, Iryna Voytyuk, Andrii Onyshchuk*. Interval-Based Assessment of Productivity Gains in AI-Native Software Development
5. *Khrystyna Lipianina-Honcharenko, Andrii Ivasechko, Diana Zahorodnia, Andriy Papinko, Tetiana Nadvynychna, Mykhailo Sopiha*. Benchmarking Classical Preprocessing Pipelines for Multilingual Archival Handwriting Analysis
6. *Khrystyna Lipianina-Honcharenko, Nazar Melnyk, Myroslav Komar, Diana Zahorodnia, Khrystyna Yurkiv, Mariana Soia*. Detecting Audience Overlap and Narrative Transfer in Telegram Comments
7. *Imalka T A D D, Thennakoon G H, Fernando A N B, Sachintha P W E, Samanthi Siriwardana, Lokesha Weerasinghe*. An Image-Based and Multi-Modal AI Framework for Hydroponic Lettuce: Weight Estimation and Shelf-Life Prediction with Early Spoilage Alerts
8. *Iryna Turchenko, Mykhailo Dombrovskyi, Maksym Hrushytskyi*. Natural Language Verbalization of SQL Query Results for Human-AI Interaction with Databases

S5: Artificial Intelligence and Cognitive Systems. Block F

Date: Wednesday, 2 September 2026, 14:00 – 15:30
Session Chairs: Prof. Wolfgang Dorner, Dr. Iryna Turchenko
Location: Zoom 6 / Room 51/220

1. *Nigar Özbey, Mehmet Karaköse*. A Route Planning Approach Using Genetic Algorithm and Costmap for Heterogeneous Multi Unmanned Vehicles
2. *Numan Ağaç, Selen Gürbüz, Turan Göktuğ Altundoğan, Mehmet Karaköse*. A New YOLO Based Spatio-Behavioural Feature Analysis for Anomaly Detection in Crowd Videos
3. *Oleksandr Andronati, Svitlana Antoshchuk, Anatolii Nikolenko, Olena Arsirii, Olga Manikaeva, Oksana Babilunha*. Improved Deepfake Classification based on Feature Space Selection for Ensemble Models
4. *Ouajih Ramzi, Azeddine Khiat, Soulaimane Bahi*. A Novel Leakage-Aware ML Framework for Earthquake Susceptibility Assessment in the Rif Region (North of Morocco) Using GIS and Remote Sensing
5. *Rasha S. Al Jassim, Shqran Al Mansoory*. Forecasting Tourism Demand Based on Multiple Sources of Data: A SARIMAX Approach with YouTube Indicators
6. *Roman Butsii, Serhii Lupenko, Andrii Zozulya*. Rhythm-Adaptive Recognition of ECG Pathologies Using Model-Informed Preprocessing and Classical Machine Learning Classifiers
7. *Roman Chekhmestruk, Oleksandr Romanyuk, Oleksii Stakhov, Volodymyr Maidaniuk, Natalia Babiuk*. Automated Body Landmark Detection for Orthopedic Measurement Using RGB-D Cameras and Deep Learning
8. *Roman Chekhmestruk, Olexandr Halushchak, Dmytro Halushchak*. Adaptive Control of EV Traction Inverter Using Deep Reinforcement Learning

S5: Artificial Intelligence and Cognitive Systems. Block G

Date: Thursday, 3 September 2026, 9:00 – 11:00
Session Chairs: Dr. Lesia Dubchak, Prof. Yevgeniy Bodyanskiy
Location: Zoom 6 / Room 51/220

1. *Roman Mysiuk, Iryna Mysiuk, Vasyl Sheketa*. Edge AI-Based Crack Detection and Structural Condition Assessment Using Multimodal IoT Data
2. *Georgi P. Dimitrov, Paulina T. Tsvetkova, Pavel S. Petrov, Vasyl Martsenyuk*. An AI-Assisted Classification-Driven Approach for Enhancement and Analysis of Palimpsest Readability
3. *Sajini Gunasinghe, Maleesha Hettiarachchi, Prasanna S. Haddela, Dilshan Amarakoon, Nethmi Liyanage, Thisara Shyamalee*. Interpreting Multimodal Gender Bias Scores Using Explainable AI
4. *Salma Anika, Leonard L. Alejandro*. Vision Aid: A Mobile Application using Computer Vision and Machine Learning to Enhance Color Perception for Color Blind Users Through Multisensory Feedback
5. *Serge Dolgikh*. Generative Neural Y-Model for Versatile Concept Drift Detection
6. *Sergii Kovalenko, Bogdan Kozlovskyi, Svitlana Kovalenko*. Monitoring the Emotional Dynamics of Ukrainian Society Through Sentiment Analysis of Content on Social Media

S5: Artificial Intelligence and Cognitive Systems. Block H

Date: Thursday, 3 September 2026, 11:30 – 13:00
Session Chairs: Prof. Yevgeniy Bodyanskiy, Dr. Lesia Dubchak
Location: Zoom 6 / Room 51/220

1. *Serhii Robotko, Oleksandr Gerasin, Andrei Lesko, Andrii Molchanov, Vitalii Lazorenko, Vadym Telehin*. Improving UAV Assisted Spatial Monitoring with Semiautomated Fine Tuning of Vision Language Models
2. *Soulaimane Bahi, Mohamed Youssfi, Abdelmajid Bousselham, Sara Retal, Adrien Ugon, Ouajih Ramzi*. Deep Learning for Non-Invasive Obstructive Sleep Apnea Screening in Children: A Systematic Comparison of Seven Architectures
3. *Soulef Belledjehem, Mourad Hakem, Badr Benmammar, Arslan Nedhir Malti*. A Novel Hybrid Squirrel Search Algorithm with Deep Q-Learning for Multi-Objective Cloud Task Scheduling
4. *Upasana Dwivedy, Laraib Firoz, Pragati Khapra, Amit Kumar Sharma*. Robust Multimodal Depression Detection via Targeted Fine-Tuning of RoBERTa and Wav2Vec2
5. *Valentin J. J. Kreileder, Johannes Reisinger, Andreas Fischer*. Evaluating Chunking Strategies for Retrieval-Augmented Generation on Academic Texts
6. *Vladyslav Haslo, Iryna Vergunova*. Image Compression Using Variational Autoencoder and Semantic Segmentation

7. *Volodymyr Husiev, Iryna Vergunova*. Cross-Domain Adaptive Transformer Framework for Robust Object Tracking in Unconstrained Multi-Domain Environments
8. *Turan Göktuğ Altundoğan, Selen Gürbüz, Mehmet Karaköse*. A New CLIP based Domain-Specific Image-Text Alignment Approach for VQA and Image Captioning in Interpretation of Crowd Images

S5: Artificial Intelligence and Cognitive Systems. Block I

Date: Friday, 4 September 2026, 9:00 – 11:00
Session Chairs: Dr. Vasyl Tymchyshyn, Dr. Natalia Porplytsya
Location: Zoom 6 / Room 51/220

1. *Wajdi Ben Saad, Safa Madiouni*. A Cost-Efficient Routing Pipeline for Multilingual Short-Text Classification Using Small Language Models
2. *Zeynep Karaca, İlhan Aydın, Nurhayat Dere*. A Modular Information Extraction and LLM-Based Automated Reporting Framework for Multilingual Disaster Analysis
3. *Ziya Tan, Mehmet Karaköse*. Latency-Resilient Robotic Telesurgery via Digital Twin–Based Predictive Control
4. *Galyna Chornous, Roman Nosko*. Integrating Mixed Reality and Artificial Intelligence: Improving Accuracy of Stress Resistance Assessment
5. *Danyil Klokta, Yevheniia Znakovska, Yuliya Averyanova*. Real-Time Runway FOD Detection with YOLO26s

S6: Information Technology in Education. Block A

Date: Wednesday, 2 September 2026, 11:00 – 13:00
Session Chairs: Prof. Frane Urem, Dr. Ivana Kardum Goleš
Location: Zoom 6 / Room 51/220

1. *Anatolijs Prohorovs, Olga Tsaryk, Mariana Sokol*. Ethical Aspects of University Teachers Using GenAI: Cross-National Survey Results
2. *Tetiana Stepura, Olha Korytska*. Educational Technology Resilience in Higher Education Amid Digital Transformation and Warfare: A Case Study from Ukraine
3. *Artem Artyukhov, Nadiia Artyukhova, Dmytro Chumachenko, Elena Kašťáková, Oleksandr Dluhopolskyi, Tetiana Dluhopolska*. Can Research Integrity Be Automated? The Paradox of AI Governing AI in Science
4. *Artem Artyukhov, Nadiia Artyukhova, Dmytro Chumachenko, Elena Kašťáková, Oleksandr Dluhopolskyi, Tetiana Dluhopolska*. The Policy Fiction of Human Authorship in AI-Mediated Science
5. *Frane Urem, Ana Gundić, Darko Jureković*. Supporting Microlearning Ecosystems through Verifiable Digital Credentials
6. *Halyna Henseruk, Serhii Martyniuk, Oksana Vasylenko, Yuliia Henseruk, Viktor Henseruk, Ivanna Andriychuk*. Assessing Students' Digital Competence in the Context of Using Artificial Intelligence Technologies

7. *Halyna Tuluchenko, Tetiana Bilousova, Inna Vygodner*. Instructor–Student Applications for Vector Line Integrals: Symbolic Scaffolding and Personalized Visualization as Cognitive Reward
8. *Iryna Bilous, Oksana Gomotiyk, Oleksandr Kolesnyk, Vasyl Bodnar, Viktoriia Homotiuk, Oleksii Voitenko*. A Web-Based Gamified Simulator with Learning Analytics for Safety Competence Development in Teacher Education

S6: Information Technology in Education. Block B

Date: Wednesday, 2 September 2026, 16:00 – 18:00
Session Chairs: Dr. Ivana Kardum Goleš, Prof. Frane Urem
Location: Zoom 6 / Room 51/220

1. *Karin Zaludova, Lukas Kralik, Lucie Svacinova, Ales Mizera, Michaela Karhankova*. System Breach: Gamifying Cybersecurity Education Through Offline Social Deduction
2. *Oksana Gomotiyk, Antonina Demianiuk, Danyil Demianiuk, Oleksandr Kolesnyk, Vasyl Bodnar, Nazar Oliinyk*. Design and Evaluation of an Article-Centered Web Platform for Academic Publishing and Educational Discussion in Higher Education
3. *Olena Budnyk, Iurii Shcherbiak, Kateryna Fomin, Oleksandra Patriak, Svitlana Verbeshchuk, Liubov Kozub*. Digital Transformation of University Education: Ukrainian Faculty Experience and Readiness for Artificial Intelligence Integration
4. *Volodymyr Umanets, Alla Vinnichuk, Viktor Krupka, Nataliia Solodiuk*. Generative AI in the Study of Ukrainian Literature: An Approach to Developing Teachers' Digital Competencies
5. *Orest Raiter*. Explanation First Prompting for Reviewing AI Programming Answers in Undergraduate Courses
6. *Pavel Ševčík, Jiří Vojtěšek*. Integrating Cybersecurity and AI Literacy into Healthcare Education: A Case Study on Paramedic Informatics Training
7. *Pavlo Koliasa, Andriana Shyshak, Oksana Pysarchuk, Rostyslav Rudenskyi, Amantius Akimjak, Miroslav Tvrdon*. Formation of Graphic Competence in Future Vocational Education Specialists in the Field of Digital Technologies
8. *Ryszard Zygała, Wiesława Gryncewicz*. Towards Misconception-Aware Educational Knowledge Graphs

S7: Poster Section

Date: Friday, 4 September 2026, 9:00 – 11:00
Session Chairs: Prof. Andrii Melnyk, Dr. Ruslan Shevchuk
Location: Entrance hall

1. *Andriy Melnyk, Vasyl Tymchyshyn, Ewaryst Tkacz, Andriy Vitroviy, Ivan-Stanislav Mazur, Bohdan Tymchyshyn*. Model of a Digital Twin for a High-Efficiency Hybrid Cogeneration System
2. *Feyyaz Alpsalaz, Yıldırım Özüpak, Hasan Uzel, Emrah Aslan, Ievgen Zaitsev, Andriy Lemeshko*. Machine Learning Based Predictive Maintenance: Comparative Evaluation of Fault Prediction Models

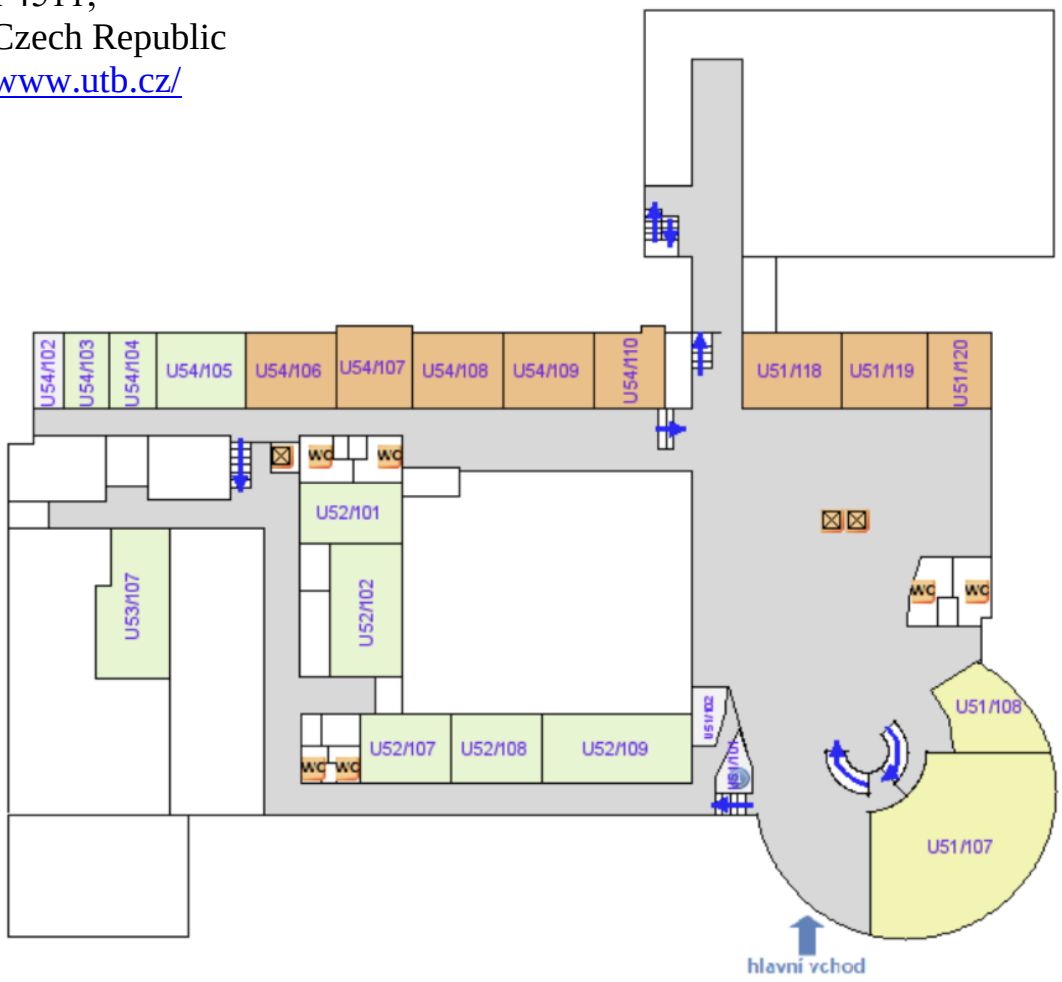
3. *Ihor Javorskyj, Roman Pelypets, Roman Yuzefovych, Oleh Lychak, Roman Sliepko, Roman Sharamaga*. Bearing Fault Detection and Estimation Using Analysis of the Hidden Periodicity of Vibration Signal
4. *Ludmila Babala, Mykola Horlachuk, Petro Humennyy, Nataliia Vozna, Serhii Kulyna, Halyna Kulyna*. Simulation-Based Model for Adaptive Traffic Signal Control Using Forecasting and Reinforcement Learning
5. *Mykola Dyvak*. Comparative Analysis of Interval Difference Operator Identification and Neural Networks for Modeling Atmospheric NO_2 Pollution
6. *Mykola Dyvak*. Generalized Mathematical Model of Atmospheric Nitrogen Dioxide Pollution Using Differential Transformation of Interval Difference Operator
7. *Oksana Desyatnyuk, Mykola Dyvak, Andriy Yushko, Uliana Koruts, Viktor Ostroverkhov, Sergiy Nadvynychnyy*. Modeling An Individual Researcher Profile In Planning The Scientific Activity Of Academic Staff Under Interval Uncertainty
8. *Olha Kovalchuk, Ruslan Chyhur, Bogdan Adamyk, Oksana Adamyk, Roman Ivanytskyy, Pavlo Chopyk*. Data-Driven Analysis of the Global Terrorism Index and Basel AML Index: Cross-Sectional Modelling on Global Data
9. *Roman Yuzefovych, Ihor Javorskyj, Oleh Lychak, Roman Khmil, Bohdan Komarnytskyi, Tetiana Basiuk*. Consistency of the Basic Frequency Estimations Obtained with Simplified Least Square Functional for Discovering Hidden Periodicities at PNRP
10. *Yurii Lisovskyi, Ivan Dyyak, Bohdan Melnyk, Nataliya Melnyk, Oleh Korkushko, Andrii Krupka*. Application of Transformer Models for Debt Repayment Prediction
11. *Yuriy Pilyukov, Viktoriia Ivaniuk, Andriy Dzyurbel, Olha Kovalchuk, Nadiia Dzhugla, Oksana Karabin*. Machine Learning Detection of Crime Pattern Shifts: Evidence from Ukraine (2015–2025)
12. *Andriy Krysovatyy, Olena Ptashchenko*. The Role of Financial Inclusion in Human Capital Development in the Context of Digitalization
13. *Andriy Krysovatyy*. Quantum Models in Fiscal Policy: Applied Applications
14. *Bohdan Malyniak, Andriy Melnyk, Andrii Derlytsia, Yaroslav Kulinich, Roksolana Malyniak, Jurij Klapkiv*. Lag Between Service Delivery and Payment in Ukraine's Centralized Purchasing of Rehabilitation Services: Seasonal Cash Gaps and Liquidity Forecasting
15. *Kateryna Berezka, Zoriana Lobodina, Volodymyr Horyn, Tetiana Kizyma, Viktoriia Sidliar, Bohdan Piniaz*. Assessment of Financial Capacity of Territorial Communities Using Integrated Indicators and Discriminant Analysis
16. *Nataliia Dziubanovska, Olena Sydorovych, Mykola Bukovskyi, Anton Shevchuk, Volodymyr Uhryn, Nina Petrukha*. Pareto-Based Optimization of Tax Portfolio and Budget Priorities: The Case of Ukraine
17. *Nataliia Dziubanovska, Vadym Maslii, Mykhailo Ozhha, Pavlo Popovych, Volodymyr Korol, Sergii Grodskyi*. Application of Statistical and Machine Learning Methods for Environmental Monitoring Based on ESG Data
18. *Oksana Desyatnyuk, Olena Ptashchenko*. Digital Technologies as a Driver for the Development of a Green Economy and Ensuring Financial Sustainability
19. *Oleksandr Dziubliuk, Volodymyr Manzhula, Mykola Stetsko, Sviatoslav Gerchakivsky, Bohdan Seniv, Halyna Zabchuk*. Data-Driven Approach to the Coordination of Monetary and Fiscal Policy Amid War

20. *Olga Holubnyk, Vasyl Pryimak*. Integral Assessment of the Dynamics of Population Welfare in Ukraine Based on Fuzzy Logic
21. *Roman Vovk, Svitlana Pryima, Volodymyr Vovk*. State Resilience Analysis using Intuitionistic Fuzzy Sets
22. *Ruslan Shevchuk, Olha Kovalchuk, Zoriana Lobodina, Larysa Khokhlova, Iryna Krupiak, Tetiana Kuz*. Assessing Institutional Determinants of Money Laundering Risk: A Machine Learning Approach Based on Economic Freedom Indicators
23. *Taras Panchyshyn, Nataliia Mishchuk, Stepan Vaskiv, Volodymyr Panchyshyn, Bohdan Melnyk, Serghiy Radynskyy*. Transformation of Local Finance Management in Ukraine Using Data Science Technologies and Predictive Analytics
24. *Andrii Aliluiko, Mykhailo Kasianchuk, Nataliia Dziubanovska*. Modified Perfect Form RNS over the Complex Numerical Domain for Cryptographic Computations
25. *Dmytro Karpyn, Andriy Pukas, Anna Karpyn, Andrii Onyshchuk, Roman Yuzefovych, Volodymyr Kostetskyi*. Socio-Technical Risk Modeling of Google Workspace for Education in Higher Education Institutions
26. *Jan Valouch, Jaroslav Uher, Jan Valouch Jr*. Application of Prognostic Methods in the Process of Security Assessment of Objects
27. *Ruslan Shevchuk, Bogdan Adamyk, Vladlena Benson, Mikolaj Karpinski, Topside Ehleketani Mathonsi*. Privacy-Preserving Cross-Chain Asset Tracking: A Threshold PSI Protocol with Real-World Exploit Validation
28. *Vasyl Yatskiv, Roman Pasichnyk, Ludmila Babala, Serhii Kulyna*. Secure Biometric Authentication Using Homomorphic Encryption and Fuzzy-Based Similarity Matching
29. *Vasyl Yatskiv, Stepan Ivasiev, Nataliia Yatskiv, Serhii Kulyna, Vadim Schuchmann, Taras Tsavolyk*. Post-Quantum Key Encapsulation Mechanism Based on the McEliece-RRNS Cryptosystem
30. *Ali Bebboukha, Chouaib Labiod, Redha Meneceur, Abdelmoumene Hechifa, Ievgen Zaitsev, Viktoriia Bereznychenko*. Photovoltaic Fault Detection Using I-V Curve Analysis Coupled with Artificial Intelligence Methods
31. *Vasyl Tymchyshyn, Iryna Spivak, Serhii Kozibroda, Svitlana Krepych, Vadym Zabchuk, Mykola Buriak*. Intelligent Adaptive Control of Cogeneration Systems Based on Multi-Criteria Optimization
32. *Andriy Melnyk, Yurii Popyk, Ihor Romanets, Arkadiusz Banasik, Bogdan Maslyiak, Taras Sitkar*. Architecture of a Corporate Network Management System Based on a Knowledge-Oriented Approach
33. *Andrii Zubyk, Nataliia Mishchuk, Bohdan Melnyk, Roman Lozynskyy, Rostyslav Mykhailyshyn, Marian Tripak*. GIS-visualization of Spatial Data as a Tool for Innovative Management of the Educational Infrastructure of the Urban Community
34. *Andriy Melnyk, Iurii Shcherbiak, Mariya Mudrak, Tetiana Yurchyshyn, Volodymyr Nemeryshyn, Marek Vrabeľ*. Semantic-Driven Knowledge Assessment: Ontologies and Large Language Models for Automatic Test Generation
35. *Andriy Melnyk, Sergiy Nadvynychnyy, Yuriy Franko, Yaroslava Toporivska, Iryna Androshchuk, Richard Filip*. Intelligent Learning Environments Based on the Integrated Use of Artificial Intelligence, IoT, and Educational Data Analytics

36. *Andriy Melnyk, Taras Soroka, Iryna Nedoshytko, Bohdan Pushkar, Martin Taraj, Olena Pylypenko*. Controlled Generation of Educational Content Based on Knowledge-Oriented Models
37. *Andriy Melnyk, Zoriana Pushkar, Oleh Vatslavskyi, Iryna Nasminchuk, Wojtek Duczmal, Andrii Tymkiv*. Ontology-Based Decision Support for Academic Process Management in Smart Universities
38. *David Šaur, Jan Albrecht*. Web-based Applications for Teaching Multi-Criteria Decision-Making: A Comparative Case-Study Approach
39. *Iurii Shcherbiak, Dmytro Kostenko, Zoriana Krupnyk, Larysa Liashenko, Kateryna Binytska, Andrii Kolesnikov*. Integrating Research-Based Learning into COIL to Foster Students' Academic and Intercultural Growth
40. *Yuriy Petrovskyi, Andriy Pukas, Andriy Melnyk, Olga Gordienko, Yaroslav Tsapiv, Iurii Shcherbiak*. Adaptive AR System for Social and Pedagogical Adaptation of Persons with ASD
41. *Igor Yakymenko, Mykhailo Kasianchuk, Olesia Martyniuk, Serhii Martyniuk, Yurii Yakymenko, Halyna Henseruk*. A Multilevel Encryption Method in a Polynomial Residual Number System
42. *Mykhailo Kasianchuk, Mykhailo Holembiovskyi, Oleh Momotiuk, Viktor Zalizniak, Inna Shylinska, Ruslan Shevchuk*. Encryption Methods in the RNS Based on Changing Parameters of the Chinese Remainder Theorem

Meeting of the Board

Date: Friday, 4 September 2026, 11:00 – 11:30
Location: Room 51/220

Interactive Map U5 building – 1st floor

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