

University of Warwick
National Aerospace University “Kharkiv Aviation Institute”
V.N. Karazin Kharkiv National University

Program of
6th International Conference of IT-professionals on Artificial Intelligence
Profit AI 2026
(July, 15-17, 2026)



**UNIVERSITY
OF WARWICK**



Coventry, UK, 2026

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Yevgeniy Bodyanskiy – Kharkiv National University of Radioelectronics, Ukraine

Yuriy Syerov – Lviv Polytechnic National University, Ukraine

Time difference

Relevant only for online participants.

The conference time corresponds with the GMT+1 time zone, where the UK time is the reference point.

Country	Time zone	Time difference in hours in relation to the UK
UK	GMT+1	0
Algeria	GMT+1	0
Poland	GMT+2	+1
Slovakia	GMT+2	+1
Germany	GMT+2	+1
Ukraine	GMT+3	+2
India	GMT+5:30	+4:30
Vietnam	GMT+7	+6
Canada, ON	GMT-4	-5
USA, MD	GMT-4	-5
USA, NY	GMT-4	-5
USA, GA	GMT-4	-5

Opening

July, 15th, 2025

Offline: University of Warwick, Department of Computer Science

Online: Zoom [link](#)

9:00 AM – 9:10 AM (GMT +1)

Section 1. Computer Vision, Autonomous Systems and Cyber-Physical Infrastructures

July, 15th, 2025

Offline: University of Warwick, Department of Computer Science

Online: Zoom [link](#)

9:10 AM – 11:20 PM (GMT +1)

Presentation timing: Each talk is max 10 minutes. Please aim for 7-8 minutes and keep 2-3 minutes for questions.

1. “Cloud-Native Infrastructure for Real-Time Forest Fire Monitoring: An Event-Driven Microservices Approach”, *Mikhail Syvachenko, Yaroslav Briukhovetskyi, Anastasiia Morozova, Liliia Bielova, Victoriya Kuznietcova*
2. “VarG-PTL: A Dynamic, Variance-Guided Progressive Transfer Learning Strategy for Robust Vision Transformer Adaptation in Data-Scarce Domains”, *Norelhouda Laribi, Djamel Gaceb, Fayçal Touazi, Abdellah Rezoug*
3. “Modified cross-scale bridge transformer network with deep graph convolutions for small dataset hyperspectral image classification”, *Viktor Sineglazov, Kyryo Lesohorskyi, Andrii Grygoriev*
4. “Probing Textile Composition Cues in Vision Foundation Models Through Sample-Level Explainability Analysis”, *Maryna Molchanova, Olha Zalutska, Olexander Mazurets, Maksim Shurypa, Illia Tymofiiev, Oksana Zakharkevich*
5. “Deep Learning-Based Forest Fire Detection: A Comparative Study of Custom and Transfer Learning Architectures”, *Yaroslav Briukhovetskyi, Artem Panchenko, Ievgen Meniailov, Maryna Vladymyrova, Nataliia Leonova*
6. “Evaluation of InsightFace for Person Identification Under Non-Ideal Visual Conditions”, *Mykhailo Trusov, Volodymyr Strukov, Dmytro Uzlov*
7. “Neural Network-Based UX Issue Detection in User Interviews with UI Scene Graph Alignment”, *Yevhenii Ihnatiuk*
8. “Connected Campus Digital Twin Framework with AIEnabled Decision Support for Research Continuity and Infrastructure Resilience under Prolonged Disruption”, *Tetyana Nikitina, Vyacheslav Kharchenko, Olga Morozova Iryna Shevchenko, Jacek Gajewski*
9. “XAI-DriftIDS: A Self-Supervised Tabular Transformer Framework for Uncertainty-Aware CPS-IoT Intrusion Detection under Sensor Drift”, *Krishna Kant Singh, Akansha Singh*
10. “Action-Augmented Policy Optimisation for Multi-Agent Autonomous Cyber Defence”, *Oleksandr Mostovyi, Denys Symonov*

11. “An Intelligent Onboard Adaptive Mission Replanning System for UAVs Based on Computer Vision Data”, *Oleksandr Prokhorov, Oleg Fedorovich, Yuliia Leshchenko, Andrei Popov, Oleksii Hubka*
12. “Physical-Semantic Errors in Onboard Software of Nanosatellites and UAVs: Theoretical Foundations and a Classification Framework”, *Yuriy Manzhos, Ihor Turkin, Yevheniia Sokolova, Oleksandr Liubimov*
13. “Data-Driven Adaptation of MPPT Algorithms for Renewable Energy Systems”, *Yurii Parfeniuk, Ievgen Meniailov, Kseniia Bazilevych, Anastasiia Morozova*

Section 2. Intelligent Systems and Algorithmic Optimization

July, 15th, 2026

Offline: University of Warwick, Department of Computer Science

Online: Zoom [link](#)

11:30 AM – 13:30 PM (GMT +1)

Presentation timing: Each talk is max 10 minutes. Please aim for 7-8 minutes and keep 2-3 minutes for questions.

1. “Computational Safety Assessment of Protective Structures Against Hydrogen-Air Explosion Overpressure”, *Yurii Skob, Viktoriia Strilets, Oksana Pichugina, Oleksii Kartashov, Liudmyla Koliechkina*
2. “Mathematical Modeling of the Braille Script Based on Relative Integral Criteria”, *Volodymyr Mayik, Lyudmyla Mayik*
3. “MOFLO: A Graph-Theoretic Algorithm for Bicriteria Allocation in Intelligent and AI-Driven Systems”, *Liudmyla Koliechkina, Oksana Pichugina, Yurii Skob, Olga Prytomanova, Yehor Havryliuk*
4. “On the Usage of the Gale-Shapley Algorithm to Find Apartment Rentals”, *Mariia Kovalenko, Tetiana Revina*
5. “A Measure-Oriented Fuzzy Framework for Continuous Maximal Coverage: Modeling, Aggregation, and Level-Set Evaluation”, *Sergiy Yakovlev, Yehor Havryliuk, Andrii Hlushko, Volodymyr Donets, Nikita Abashin*
6. “AI-Based Neuro-Fuzzy Assessment of Relationships Between Socio-Economic Development Indicators”, *Elena Kiseleva, Olga Prytomanova, Dmytro Uzlov, Andrii Hlushko*
7. “Intelligent Methods of Tax Control for Strengthening State Fiscal Security”, *Oksana Desyatnyuk, Andriy Krysovatty, Vasyl Lytvyn, Svitlana Sachenko, Fedir Tkachyk, Bohdana Shuliuk*
8. “Applying a configuration approach to human resource orchestration to ensure sustainable development of recovery programs”, *Nataliia Dotsenko, Igor Chumachenko, Ivan Nekrasov, Mariia Dotsenko, Yuliia Husieva, Heorhii Kuchuk*
9. “Resource-Efficient Convolutional Neural Network with Diagonally-Symmetric Kernels for Multiclass Classification”, *Ivan Peleshchak, Vasyl Lytvyn, Roman Peleshchak, Taras Lendiuk, Anatoliy Sachenko*

10. “Intelligent Optimization of Multidimensional Signal Constellations for Reliable Biomedical Data Transmission in IM/DD Channels”, *Andrii Chuhai, Georgiy Yaskov, Liudmyla Kirichenko, Andrii Zhuravka, Kostiantyn Veretelnyk, Yelyzaveta Yaskova*

11. “CEURCheck: An Explainable Rule-Based System for Multi-Format CEUR-WS Manuscript Compliance Validation”, *Kyrylo Malakhov, Julia Rogushina*

12. “Modeling and Design of Induction Motor Characteristics in Simulink”, *Anatolii Padalko, Nina Padalko, Kateryna Padalko*

Section 3. Large Language Models, NLP, and Generative AI Governance

July, 16th, 2026

Offline: University of Warwick, Department of Computer Science

Online: Zoom [link](#)

9:00 AM – 10:30 AM (GMT +1)

Presentation timing: Each talk is max 10 minutes. Please aim for 7-8 minutes and keep 2-3 minutes for questions.

1. “GenAI and the Transformation of Research Supervision”, *Artem Artyukhov, Nadiia Artyukhova*

2. “Locale-Conditioned Compliance Asymmetries in Large Language Models”, *Rostyslav Zatserkovnyi, Roksoliana Zatserkovna*

3. “Multi-Level verification system of Large Language Models in mathematical modeling tasks”, *Oleksandr Khimich, Elena Nikolaevskaya, Pavlo Yershov, Vladyslav Kucher, Mykyta Marchenko*

4. “OntoValid: Ontology-Validated Proof Traces for LLM Reasoning”, *Nassima Habbiche, Amel Boustil, Youcef Tabet*

5. “A Statistical-Linguistic Detector for LLM-Generated Text in Multi-Class Disinformation Pipelines”, *Artem Khovrat, Volodymyr Kobziev, Volodymyr Donets*

6. “From Fluency to Accuracy: Evaluating Medical QA and Machine Translation”, *Yana Daniil, Oleksandra Borovyk, Oleksii Turuta*

7. “A Comparative Study of Machine Learning Models for Text Emotion Classification”, *Dmytro Tymoshchuk, Mariia Stadnyk, Vira Titova, Volodymyr Dmytriv*

8. “On Certain Features of the Ontology-Driven Transformation of Natural Language Queries into SPARQL”, *Oleksandr Palagin, Mykola Petrenko, Mykola Boyko*

9. “Disclosure of Generative AI Use in Academic Research: A Comparative Study of Policies at Leading Universities”, *Dmytro Chumachenko, Artem Artyukhov*

Section 4. Educational AI and Adaptive Learning Systems

July, 16th, 2026

Offline: University of Warwick, Department of Computer Science

Online: Zoom [link](#)

11:00 AM – 12:40 PM (GMT +1)

Presentation timing: Each talk is max 10 minutes. Please aim for 7-8 minutes and keep 2-3 minutes for questions.

1. “Explainable AI-Based Recommendation of YouthFriendly Learning Pathways for SDG and ODA Education”, *Khrystyna Lipianina-Honcharenko, Myroslav Komar, Oleksandr Osolinskyi, Pavlo Bykovy, Mariana Soia, Iryna Lukasevych-Krutnyk*

2. “A Classical Decision Core with AI Enrichment for Adaptive Learning: Architecture and Simulation-Based Validation”, *Oleksandr Kholodniak, Oleksandr Prokhorov*

3. “AI Functions in Education: Practical Formats of Student–AI Interaction”, *Olena Suzikova*

4. “Development of an educational Telegram bot for preparing for exams using SQLite databases”, *Volodymyr Galaktionov, Kyryl Korobchynskyi, Oleksii Kartashov*

5. “Current Scientific Problems Statement for the Intelligent Information Technology Supporting SQL Learning”, *Oksana Luchsheva, Andriy Chukhray, Oleksandr Yevdokymov, Olena Havrylenko, Pavlo Luchshev*

6. “The formalized model for prioritizing font design criteria for children's publication”, *Zoryana Selmenska, Alona Kudriashova, Myroslava Dubnevych*

7. “An integrated method for test item bank analysis and optimization based on CTT, IRT, and KST”, *Kyryl Korobchynskyi, Yelyzaveta Shevchenko, Viktoriia Seredenko, Olha Matsyi*

8. “Methodological System of Learning Based on Artificial Intelligence”, *Leonid Flehantov*

9. “From Policy First to Learning First: Rethinking AI Governance in Universities”, *Artem Artyukhov, Nadiia Artyukhova, Vaida Tufan, Dmytro Chumachenko*

10. “An AI-Based Conceptual Framework for the Theoretical and Methodological Training of Energy Engineers”, *Anatolii Padalko, Nina Padalko, Kateryna Padalko*

Section 5. Intelligent Systems in Healthcare

July, 17th, 2025

Offline: University of Warwick, Department of Computer Science

Online: Zoom [link](#)

9:00 AM – 12:20 PM (GMT +1)

Presentation timing: Each talk is max 10 minutes. Please aim for 7-8 minutes and keep 2-3 minutes for questions.

1. “Evaluating the Stability of Sphenoid Sinus Shape Fingerprints Under Geometric Perturbations”, *F. Zwicker, V. Krasnikov, Victoriia Alekseeva, Marcus Frohme, Vitalii Gargin, Alina Nechyporenko*

2. “Development of an AI-Based Tool for the Comprehensive and Accurate Detection of Left Ventricular Hypertrophy by Electrocardiography”, *Illya Chaikovsky, Danylo Zakrzhevsky, Mykhailo Bocharov, Dmytro Nasiedkin, Anatoly Kravchenko*

3. “Auditable Post-hoc ECG Explainability by Global Semantic Transition and Rough-Set Rules”, *Pavlo Radiuk, Oleksander Barmak, Iurii Krak*

4. “Energy-Theoretic Shape Ratio Feature Extraction for AI-Based ECG Signal Processing”, *Yurii Palianytsia, Roman Nikolaichuk, Vasyl Dunets, Andriy Sverstiuk*

5. “Machine Learning-Based Decision Support for Coronary Heart Disease Risk Stratification and Screening”, *Akym Davydov, Tetiana Revina*

6. “C-DeepNet: A Curriculum-Guided Deep Ensemble Network for Skin Lesion Classification”, *Riadh Meghatria, Mamar Khaled, Djamel Gaceb, Fayçal Touazi, Hiba Naci*

7. “Clustering Country-Level Missingness Profiles in Daily COVID-19 Case and Death Reporting Across Europe”, *Uliana Zbezhkhovska*

8. “Forecasting of Salmonellosis Dynamics in Kharkiv Region (Ukraine) using ARIMA model”, *Mykola Butkevych*

9. “Convolutional Neural Network with Adaptive Parametric Rectified Linear Unit for Medical Image Classification”, *Filip Brodetskyi, Yevgeniy Bodyanskiy, Oleh Zolotukhin, Oleksandr Stopin, Yevhenii Yeriemieiev*

10. “Robustness of MedYOLO in Detecting Small High Density Objects Under Artifact Occlusion via Physically-Grounded CT Stochastic Data Generation”, *Oleksii Kosiuk, Olena Chumachenko, Victor Sineglazov*

11. “Computed Tomography Based Assessment of Maxillary Sinus Bone Wall Thickness and Radiodensity in Odontogenic Maxillary Sinusitis”, *Victoriia Alekseeva, Viktor Reshetnik, Marcus Frohme, Andrii Lupyr, Alla Dzyza, Alina Nechyporenko*

12. “Determination of the intensity of immunohistochemical reactions in micropreparations of different quality”, *Radiy Radutny, Ganna Titova, Rozana Nazaryan, Vitaliy Gargin*

13. “Robust Tree-Based Forecasting of Gonococcal Infection Dynamics Using Lagged Epidemiological Features”, *Yevhen Matviichuk, Dmytro Chumachenko*

14. “3D Customizable Representation of Anatomical Structures for Patient-Centric Care”, *Dmytro Kukhareno, Łukasz Ścisło, Leonid Shkrobot, Piotr Ludwinek, Anatoliy Sachenko, Andrii Perekrest*
15. “Evolution of Medical Cyber-Physical Systems in the Era of Medicine 5.0: An Evolutionary Model”, *Yevheniia Babenko, Tatyana Stepanova*
16. “A Unified Processing Pipeline for Automated IMU-Based Analysis of Human Resting States”, *Vladislav Kaverinskiy, Kyrylo Malakhov, Mykola Budnyk, Dmytro Vakulenko*
17. “Machine Learning-Based Forecasting of Monthly Salmonellosis Morbidity in Ukraine: A Comparative Study of Count Regression and Tree Ensembles”, *Taras Ishchenko, Tetyana Chumachenko*
18. “Applying Machine Learning Models for Short-Term Forecasting of Medical Equipment Demand During Crisis Situations”, *Iryna Kyrychenko, Volodymyr Kobziev, Artem Oliinyk, Glib Tereshchenko, Liudmyla Kirichenko*
19. “Exploratory Data Analysis of HIV Incidence Trends in Ukraine”, *Syrovatko Kateryna, Kseniia Bazilevych*
20. “Comparative Analysis of Machine Learning Methods for Forecasting Hepatitis B Morbidity in Ukraine”, *Vladislav Kramar, Iryna Trofymova, Tetyana Chumachenko*