INFORMATION TECHNOLOGIES: THEORETICAL AND APPLIED PROBLEMS (ITTAP-2026)

The 6th International Workshop

October 19-21, 2026
Ternopil, UKRAINE
https://ittap.tntu.edu.ua/

CONFERENCE PROGRAMME

Ternopil Ivan Puluj National Technical University
Member Of European University Association

https://tl.ubb.edu.pl
Erasmus+ project no: 2023-2-PL01-KA220-HED-000179445

19-21, October, 2026, Ternopil, UKRAINE; Opole, POLAND; Halmstad, SWEDEN; Kyiv, UKRAINE; Aqaba, JORDAN

ITTAP 2026 General Timetable

Workshop 1

Applied Information Technologies

https://tube5.tntu.edu.ua/rooms/7vc-7gp-jtz-mpf/join

October 19		
	9:50-10:00 (10)	**Conference opening.**
1	**10:00-10:10**	**Taras Lechachenko, Dmytro Tymoshchuk, Mariia Stadnyk, Yurii Klots Vasyl Vasylkiv** Comparative Analysis of Machine Learning and Transformer-Based Models for Query Domain Classification
2	**10:10-10:20**	**Andrii Biziuk, Oleksii Khoroshevskyi, Iryna Khoroshevska, Tetiana Trunova, Vladyslav Oliinyk** From Label to Behavior: A Dual-Channel Method for Verifying Solo-Wargame Bot Profiles
3	**10:20-10:30**	**Stanislav Orlov,Sergii Khlamov,Zhanna Deineko,Iryna Tabakova, Tetiana Trunova** Cloud architecture using OpenAPI specification for distributed microservices-oriented information system for data processing in astronomy
4	**10:30-10:40**	**Petro Stukhliak,Danylo Stukhliak , Oleg Totosko Roman Zolotyi** Use of differential operators for detecting the boundaries of external surface layers and cluster structures in epoxy composites
5	**10:40-10:50**	**Stanislav Orlov, Sergii Khlamov, Andrii Frolov, Zhanna Deineko, Iryna Tabakova** Performance efficiency of binary communication protocols in event-driven distributed systems: mathematical and empirical analysis
6	**10:50-11:00**	**Yuliia Seti, Igor Boyko** A CAP-Crank-Nicolson Method for Quasienergy Computation in Open Driven Nanostructures
7	**11:00-11:10**	**Marharyta Prachuk, Yuliia Seti, Igor Boyko** Stress Testing Methodology for Neural Network-Based Software Systems in Nanostructure Parameter Identification
8	**11:10-11:20**	**Maria Yukhymchuk, Viacheslav Kovtun, Volodymyr Dubovoi, Vladyslav Lesko, Yurii Ivanov** Secondary Similarity Criteria for Adaptive Intelligent Control and Digital Twin Automation in Energy Microgrids
9	**11:20-11:30**	**Szymon Nabrzuchowski, Rafał Gasz** Comparative Evaluation of Modern Object Detection Algorithms for Real-Time Military Aircraft Recognition
10	**11:30-11:40**	**Taras Lypak, Halyna Lypak, Oleksii Duda, Halyna Matsiuk** Comparing prompting strategies for LLM-based user interface generation
	11:40-12:00 (20)	**Coffee brake**
11	**12:00-12:10**	**Rostyslav Zatserkovnyi, Roksoliana Zatserkovna** Optimizing Textbooks for Readers with Low Vision via Constraint-Based Re-Imposition

12	**12:10-12:20**	**Vadim Romanuke** Runtime efficiency of scikit-learn t-SNE and openTSNE dimensionality reduction on synthetic Gaussian datasets
13	**12:20-12:30**	**Tymofii Tonkovyd** Business process management under uncertainty: A structured review and conceptual framework
14	**12:30-12:40**	**Nadia Kryva, Nadia Gashchyn,, Sergii Glado, Halyna Semenyshyn** Adaptive Kalman Filtering for a Microprocessor-Based Antenna Position Sensor in Disturbed Field Conditions
15	**12:40-12:50**	**Mykola Petrychko, Serhiy Shtovba, Yaroslav Dziubenko** Benchmarking Loss Functions for Classifier Training on Imbalanced Datasets
16	**12:50-13:00**	**Serhii Titarchuk, Petro Malezhyk, Ihor Tverdokhlib** Context-oriented archival document management in the integrated information and educational environment of an educational institutions
17	**13:00-13:10**	**Oleksii Matsiievskyi, Ihor Bosenko, Roman Mazurenko, Igor Achkasov** Information Technology for Multi-Agent Verification of Digital Twins of Damaged Critical Infrastructure Objects
18	**13:10-13:20**	**Kateryna Merkulova ,Yelyzaveta Zhabska, Viktor Kozoriz** Software for a Distributed Server Monitoring System Based on Consensus Algorithms
19	**13:20-13:30**	**Tetiana Hovorushchenko, Yurii Voichur, Dmytro Medzatyi, Andrii Zhandra and Artem Boyarchuk** Method for detecting and preventing emergency situations in the cyber-physical system "Smart Home"
20	**13:30-13:40**	**Vadym Romanko, Denys Koval, Oleksandr Sribnyi, Oleg Manko, Yurii Podchashynskyi** Persistent Sensor Quality in Adaptive UAV Navigation Replay
21	**13:40-13:50**	**Vitaliy Tymoshchuk, Ihor Bodnarchuk, Dmytro Tymoshchuk, Ihor Baran** Adaptive Cost-Aware SQL Result Caching for PostgreSQL Using Redis and Version-Based Invalidation
22	**13:50-14:00**	**Yevhen Davydenko, Alyona Shved, Kateryna Antipova, Maryna Falenkova, Igor Andrushchak** Pareto Set Reduction without Explicit Criteria Importance Using Dempster–Shafer Theory

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2	**10:10-10:20**	**Ihor Vorobets, Mykhailo Fryz** Compact statistical representation of log-mel spectrograms for industrial acoustic anomaly detection
3	**10:20-10:30**	**Nataliia Blashchak, Vasyl Kryven, Liubov Tsymbaliuk, Volodymyr Valiashek, Myroslava Yavorska** Investigation of the interaction of cracks with an inclusion in a perfectly elastic-plastic body using methods of computer algebra
4	**10:30-10:40**	**Oleksandr Krasnokutskyi, Igor Cherevko, Inessa Krasnokutska** Practical methods for numerical simulations of stability for systems with delay
5	**10:40-10:50**	**Andrii Voloshchuk, Halyna Osukhivska, Maksym Drogobytskiy, Ivan Borodii, Igor Andrushchak** Impact of Data Volume on Compression Algorithm Efficiency in Time Series Database Management Systems
6	**10:50-11:00**	**Oleh Zaiats, Dmytro Mykhalyk, Vasyl Yatsyshyn, Oleh Pastukh , Liubov Tsymbaliuk** Building Software Functional Architecture by Consensus Clustering of Requirements with Soft Inter-Component Links
7	**11:00-11.10**	**Bogdan Pryymak, Mykola Zhelinskyi, Petro Vasyleha, Isabel Garzon** Design and comparative analysis of a fuzzy control system for an electromechanical object
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10	**11:30-11:40**	**Sergiy Tytenko, Serhii Artymovych , Vladyslav Saniuk, Ivan Feofanov** KnowledgeMaps AI: Architecture and Implementation of an LLM-Based Concept Map Platform
	11:40-12:00 (20)	**Coffee brake**
11	**12:00-12:10**	**Volodymyr Sokolov, Pavlo Skladanniy** Method for automating the process of verifying established medical diagnoses
12	**12:10-12:20**	**Vasyl Trysnyuk, Kyrylo Smetanin, Serhii Zhuravsky, Taras Trysnyuk** Models and Algorithm for Adaptive Electronic Jamming of FPV Drone Communication Links Based on Automatic Signal Identification
13	**12:20-12:30**	**Illia Ignatyev, Vladyslav Khaidurov** Mathematical support of information and measurement technology for controlling the power distribution process in electrical networks, taking into account environmental limitations
14	**12:30-12:40**	**Dmytro Karpenko, Oleg Dekusha, Artur Zaporozhets Valentyn Tsapenko**

		Information Technologies for Criticality-Tiered Load Management in Hybrid Storage Systems
15	**12:40-12:50**	**Olga Solovei** Schema Evolution method for Databricks Telemetry Pipelines in Urban Construction Projects
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17	**13:00-13:10**	**Viktoriia Zhebka, , Dmytro Nishchemenko, and Serhii Zhebka** Probabilistic and Structural Robustness of Distributed Ledger Platform Rankings underWeight and Data Uncertainty

October 21		
	10:00-10:30	**Workshop 1 summary. Final session** **Conference summary. Discussion of the presented papers.**

Workshop 2

Cybersecurity in the Era of AI

https://tube5.tntu.edu.ua/rooms/kms-fnf-jti-5a1/join

October 20		
	9:50-10:00 (10)	**Conference opening.**
1	**10:00-10:10**	**Vasyl Ustimenko Oleksandr Pustovit Tymofii Svyrydenko** On Artificial Intelligence and stream ciphers defined in terms of Algebraic Graph Theory
2	**10:10-10:20**	**Roman Butsii, Ali Tawfiq Khwaldeh** Low-Complexity ECG and PPG Authentication for IoT-Enabled Edge Sensor Systems
3	**10:20-10:30**	**Viacheslav Kovtun, Oksana Kovtun,Oleksii Kozachko,Ilona Bogach,Oleh Yasniy** Adaptive Resource-Aware Alert Routing with Statistical Guarantees for Security Operations Centres
4	**10:30-10:40**	**Mykola Stetsiuk, Yurii Stetsiuk, Serhii Mostovyi, Volodymyr Dmytriv, Pawel Sawicki** A Context-Dependent Method for Anomaly Detection in IoT Networks Using a Sector-Ring Model and Markov Forecasting
5	**10:40-10:50**	**Ruslan Zharovskyi, Yurii Leshchyshyn, Andrii Manko,Andriy Palamar, Iurii Kriachko** Acoustic Detection of Unmanned Aerial Vehicles Using Mel-Spectrograms and YOLOv8n-cls
6	**10:50-11:00**	**Nina Bąkowska, Michał Wierzbicki, Krzysztof Zatwarnicki** Semantic Contract Violation as an Escalation Signal for LLM Agents
7	**11:00-11.10**	**Nataliia Petliak, Yurii Klots, Vira Titova, Dmytro Tymoshchuk** Detection of abnormal behavior of operating system users
8	**11:10-11:20**	**Olga Torstensson, Dmytro Prokopovych-Tkachenko** A Reproducible SOC Malware-Investigation Exercise for Cybersecurity Education in the Era of AI
9	**11:20-11:30**	**Ivan Opirskyy, Larysa Rakobovchuk, Ivan Tyshyk, Taras Nakonechnyy** Detecting prompt injection attacks across datasets using lexical, semantic, and transformer-based models
10	**11:30-11:40**	**Oleh Deineka, Oleh Harasymchuk, Yevhen Martseniuk, Andrii Partyka** Pilot Implementation and Empirical Evaluation of an Azure-Based Data Classification Methodology for SOC 2 Type 2 Compliance
	11:40-12:00 (20)	**Coffee brake**
11	**12:00-12:10**	**Ivan Opirskyy** Measuring misclassification of human-written text as AI-generated across detection architectures for content-authenticity security controls
12	**12:10-12:20**	**Volodymyr Sokolov, Yuliia Kostyuk, Pavlo Skladannyi, Karyna Khorolska, Dmytro Hnatchenko** AI-driven adaptive cryptographic protection for telecom-munication networks using LSTM and fuzzy logic

13	**12:20-12:30**	**Mariia Stadnyk, Taras Lechachenko, Nataliia Petliak, Antonina Kashtalian and Vasyl Vasylkiv** Comparative Analysis of Machine Learning Models for Malware Family Classification
14	**12:30-12:40**	**Vasyl Yatskiv, Serhii Kulyna, Nataliia Yatskiv** System Policy and Tool Controls against Ukrainian-Language Attacks on Quantized Edge LLM
15	**12:40-12:50**	**Serhii Mostovyi, Oleh Savenko, Olena Pyrch, Volodymyr Dmytriv, Abdel-Badeeh M. Salem** Intelligent Detection of Malicious Resource Behavior of Processes in Computer Systems
16	**12:50-13:00**	**Nataliya Zagorodna ,Oleh Yarema** LLM Driven Capacity Enhancement for SVG Steganography
17	**13:00-13:10**	**Andriy Lutskiv, Yurii Balandiuk** Failure Modes and Guardrails for LLM-Agent Elastic Scaling of IoT Stream Processing
18	**13:10-13:20**	**Orest Polotai, Bohdana Polotai, Oleh Harasymchuk, Natalia Kukharska Artur Tkachenko** Artificial Intelligence as a Dual-Purpose Technology in Cybersecurity: Generation, Obfuscation, and Detection of Cyber Threats in the Hotel Industry
19	**13:20-13:30**	**Ivan Tyshyk, Andrii Partyka ,Sviatoslav Vasylyshyn** Cyber Threat Detection Based on Integrated Analysis of Information Security Events Using Artificial Intelligence
20	**13:30-13:40**	**Yuliia Kostyuk, Pavlo Skladanniy, Yuliia Samoilenko, Volodymyr Sokolov, Maksym Vorokhob** An intelligent method for context-aware network traffic analysis for adaptive cyber defense of computer networks

October 21		
	10:00-10:30	**Workshop 2. Final session** **Conference summary. Discussion of the presented papers.**

Workshop 3

Human Centric Artificial Intelligence in Medicine

https://tube5.tntu.edu.ua/rooms/pqg-ogx-pfg-cmr/join

October 20		
	9:50-10:00 (10)	**Conference opening.**
1	**10:00-10:10**	**Tetiana Hovorushchenko Yurii Voichur, Maksym Pytlyak, Roman Roiuk and Artem Boyarchuk** Sleep quality monitoring cyber-physical system
2	**10:10-10:20**	**Boryslav Selskyi, Andriy Sverstiuk, Petro Selskyy, Sviatoslav Kostiv, Igor Venher** Identification of predictive factors for complications following endovascular interventions through analysis of clinical, anamnestic, and laboratory-instrumental data using information techniques
3	**10:20-10:30**	**Hanin Gharamti, Jad Bazzi, Bassam Daya, Amine Bohi, Madeleine El Zaher** Toward Interpretable Multimodal Stress Detection Using Facial Geometry and Emotional Valence
4	**10:30-10:40**	**Oleksandr Povstianoi, Olena Vynokurova, Viktor Denysiuk, Yurii Lapchenko, Oleksandr Resehetylo** Intelligent information technology for automated diagnostics of ocular fundus pathologies based on the analysis of digital color images and machine learning methods
5	**10:40-10:50**	**Roman Tkachuk, Evhenia Yavorska, Anton Karnov** Adaptive Biomedical Information Technology for Automated Ocular Hemodynamic Assessment
6	**10:50-11:00**	**Vasyl Melnyk, Natalia Skutar, Halyna Melnyk** Human-Centered Explainable Machine Learning for Coffee-Related Health Risk Prediction
7	**11:00-11.10**	**Anatoliy Lupenko, Serhii Lupenko, Vasyl Kokhan** Human-Centric Neuro-Symbolic AI Orchestration for Cardiovascular Data Processing
8	**11:10-11:20**	**Andriy Palamar, Ruslan Zharovskyi, Andriy Lutskiv, Ievgeniia Tysh, Nadiia Lutsyk** Multilayer Edge AI Architecture for Biomedical Monitoring Using Internet of Medical Things
9	**11:20-11:30**	**Liliia Babinets, Nataliia Botsyuk, Iryna Halabitska, Nadiia Gashchyn, Oksana Sitkar** Information technology for decision support regarding differentiated treatment of pancreatitis and type 2 diabetes based on ROC analysis and logistic regression
10	**11:30-11:40**	**Dmytro Hasilin, Ihor Zhuravel, Yurii Zhuravel, Oleh Harasymchuk, Lesia Moroz** NeRF Model Weight Watermarking: Impact on Downstream AI Data Pipelines
	11:40-12:00 (20)	**Coffee brake**

11	**12:00-12:10**	**Yevhen Darnapuk, Polina Kravchenko,Olga Yaremchuk** Biomedical Signal Processing on Arduino UNO Q: Evaluating MCU, MPU, and Heterogeneous Execution
12	**12:10-12:20**	**Sergii Pavlov, Dmytro Romanenko, Oleksandr Poplavskyi, Tetiana Piliavoz** Multi-Objective Optimization of Serverless Configuration using Genetic Algorithms
13	**12:20-12:30**	**Oleksandr Volosovych, Sergii Pavlov, Oleksandr Poplavskyi, Valentyn Maslovskyi, Iryna Mezhiievska** Intelligent System for Automated Pathology Detection in Coronary Angiographic Image Processing
14	**12:30-12:40**	**Nataliia Kravets, Insina Grod, Lubov Shevchyk, Lidiya Romanyuk, Sergii Klymnyuk** The correlation analysis between palatine tonsil microbiota and clinical features in acute tonsillitis using a bioinformatic pipeline

October 21		
	10:00-10:30	**Workshop 3. Final session** **Conference summary. Discussion of the presented papers.**

TIME FOR PRESENTATIONS

Paper presentation at the regular session – 5 min.

Discussion, questions – 5 min.

Organized by:

Ternopil Ivan Puluj National Technical University,

Opole University of Technology (Poland),

Halmstad University (Sweden)

American University in Kyiv (Ukraine)

Aqaba University of Technology (Jordan).

Workshop 1

October 19

Applied Information Technologies

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YouTube: https://www.youtube.com/@FISTNTU

Conference opening
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2	**10:10-10:20**	**Andrii Biziuk, Oleksii Khoroshevskyi, Iryna Khoroshevska, Tetiana Trunova, Vladyslav Oliinyk** From Label to Behavior: A Dual-Channel Method for Verifying Solo-Wargame Bot Profiles	https://youtu.be/dmgn6qkyTJU
3	**10:20-10:30**	**Stanislav Orlov,Sergii Khlamov,Zhanna Deineko,Iryna Tabakova, Tetiana Trunova** Cloud architecture using OpenAPI specification for distributed microservices-oriented information system for data processing in astronomy	https://youtu.be/2PCqJdxSrBw
4	**10:30-10:40**	**Petro Stukhliak,Danylo Stukhliak , Oleg Totosko Roman Zolotyi** Use of differential operators for detecting the boundaries of external surface layers	youtube.com/watch?v=ZqyGRmMIJqI&feature=youtu.be

		and cluster structures in epoxy composites "	
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		Software for a Distributed Server Monitoring System Based on Consensus Algorithms	
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1	10:00-10:10	**Vasyl Ustimenko Oleksandr Pustovit Tymofii Svyrydenko** On Artificial Intelligence and stream ciphers defined in terms of Algebraic Graph Theory	
2	10:10-10:20	**Roman Butsii, Ali Tawfiq Khwaldeh** Low-Complexity ECG and PPG Authentication for IoT-Enabled Edge Sensor Systems	
3	10:20-10:30	**Viacheslav Kovtun, Oksana Kovtun,Oleksii Kozachko,Ilona Bogach,Oleh Yasniy** Adaptive Resource-Aware Alert Routing with Statistical Guarantees for Security Operations Centres	https://youtu.be/ZXVMcluN1wI
4	10:30-10:40	**Mykola Stetsiuk, Yurii Stetsiuk, Serhii Mostovyi, Volodymyr Dmytriv, Pawel Sawicki** A Context-Dependent Method for Anomaly Detection in IoT Networks Using a Sector-Ring Model and Markov Forecasting	https://youtu.be/MbHrCcR-79k
5	10:40-10:50	**Ruslan Zharovskyi, Yurii Leshchyshyn, Andrii Manko,Andriy Palamar, Iurii Kriachko** Acoustic Detection of Unmanned Aerial Vehicles Using Mel-Spectrograms and YOLOv8n-cls	
6	10:50-11:00	**Nina Bąkowska, Michał Wierzbicki, Krzysztof Zatwarnicki**	https://www.youtube.com/watch?v=iDDwht1a7qE

		Semantic Contract Violation as an Escalation Signal for LLM Agents	
7	**11:00-11.10**	**Nataliia Petliak, Yurii Klots, Vira Titova, Dmytro Tymoshchuk** Detection of abnormal behavior of operating system users	https://youtu.be/zlAoBkXhqbI
8	**11:10-11:20**	**Olga Torstensson, Dmytro Prokopovych-Tkachenko** A Reproducible SOC Malware-Investigation Exercise for Cybersecurity Education in the Era of AI	
9	**11:20-11:30**	**Ivan Opirskyy, Larysa Rakobovchuk, Ivan Tyshyk, Taras Nakonechnyy** Detecting prompt injection attacks across datasets using lexical, semantic, and transformer-based models	https://www.youtube.com/watch?v=orouIDUKa9M
10	**11:30-11:40**	**Oleh Deineka, Oleh Harasymchuk, Yevhen Martseniuk, Andrii Partyka** Pilot Implementation and Empirical Evaluation of an Azure-Based Data Classification Methodology for SOC 2 Type 2 Compliance	https://www.youtube.com/watch?v=7NjlwDUPLV4
	11:40-12:00 (20)	**Coffee brake**	
11	**12:00-12:10**	**Ivan Opirskyy** Measuring misclassification of human-written text as AI-generated across detection architectures for content-authenticity security controls	**https://www.youtube.com/watch?v=6X9iKrte0HM**
12	**12:10-12:20**	**Volodymyr Sokolov, Yuliia Kostyuk, Pavlo Skladannyi, Karyna Khorolska, Dmytro Hnatchenko** AI-driven adaptive cryptographic protection for telecom-munication networks using LSTM and fuzzy logic	https://youtu.be/Vy8NFXPyelE

13	**12:20-12:30**	**Mariia Stadnyk, Taras Lechachenko, Nataliia Petliak, Antonina Kashtalian and Vasyl Vasylkiv** Comparative Analysis of Machine Learning Models for Malware Family Classification	
14	**12:30-12:40**	**Vasyl Yatskiv, Serhii Kulyna, Nataliia Yatskiv** System Policy and Tool Controls against Ukrainian-Language Attacks on Quantized Edge LLM	
15	**12:40-12:50**	**Serhii Mostovyi, Oleh Savenko, Olena Pyrch, Volodymyr Dmytriv, Abdel-Badeeh M. Salem** Intelligent Detection of Malicious Resource Behavior of Processes in Computer Systems	https://youtu.be/qM9RXywFgQo
16	**12:50-13:00**	**Nataliya Zagorodna ,Oleh Yarema** LLM Driven Capacity Enhancement for SVG Steganography	
17	**13:00-13:10**	**Andriy Lutskiv, Yurii Balandiuk** Failure Modes and Guardrails for LLM-Agent Elastic Scaling of IoT Stream Processing	
18	**13:10-13:20**	**Orest Polotai, Bohdana Polotai, Oleh Harasymchuk, Natalia Kukharska Artur Tkachenko** Artificial Intelligence as a Dual-Purpose Technology in Cybersecurity: Generation, Obfuscation, and Detection of Cyber Threats in the Hotel Industry	https://www.youtube.com/watch?v=cKwWZ1z3ZUA
19	**13:20-13:30**	**Ivan Tyshyk, Andrii Partyka ,Sviatoslav Vasylyshyn** Cyber Threat Detection Based on Integrated Analysis of Information Security	https://youtu.be/dBohqzz4DLA

		Events Using Artificial Intelligence	
20	**13:30-13:40**	**Yuliia Kostyuk, Pavlo Skladanniy, Yuliia Samoilenko, Volodymyr Sokolov, Maksym Vorokhob** An intelligent method for context-aware network traffic analysis for adaptive cyber defense of computer networks	https://youtu.be/EFbLuWauE0Q

Workshop 3
October 20

Human Centric Artificial Intelligence in Medicine

https://tube5.tntu.edu.ua/rooms/pqg-ogx-pfg-cmr/join

Time		Report	YouTube link
1	10:00-10:10	**Tetiana Hovorushchenko Yurii Voichur, Maksym Pytlyak, Roman Roiuk and Artem Boyarchuk** Sleep quality monitoring cyber-physical system	
2	10:10-10:20	**Boryslav Selskyi, Andriy Sverstiuk, Petro Selskyy, Sviatoslav Kostiv, Igor Venher** Identification of predictive factors for complications following endovascular interventions through analysis of clinical, anamnestic, and laboratory-instrumental data using information techniques	
3	10:20-10:30	**Hanin Gharamti, Jad Bazzi, Bassam Daya, Amine Bohi, Madeleine El Zaher** Toward Interpretable Multimodal Stress Detection Using Facial Geometry and Emotional Valence	
4	10:30-10:40	**Oleksandr Povstianoi, Olena Vynokurova, Viktor Denysiuk, Yurii Lapchenko, Oleksandr Resehetylo** Intelligent information technology for automated diagnostics of ocular fundus pathologies based on the analysis of digital color images and machine learning methods	https://www.youtube.com/watch?v=QD3H69DAGrQ
5	10:40-10:50	**Roman Tkachuk, Evhenia Yavorska, Anton Karnov**	

		Adaptive Biomedical Information Technology for Automated Ocular Hemodynamic Assessment	
6	**10:50-11:00**	**Vasyl Melnyk, Natalia Skutar, Halyna Melnyk** Human-Centered Explainable Machine Learning for Coffee-Related Health Risk Prediction	
7	**11:00-11.10**	**Anatoliy Lupenko, Serhii Lupenko, Vasyl Kokhan** Human-Centric Neuro-Symbolic AI Orchestration for Cardiovascular Data Processing	
8	**11:10-11:20**	**Andriy Palamar, Ruslan Zharovskyi, Andriy Lutskiv, Ievgeniia Tysh, Nadiia Lutsyk** Multilayer Edge AI Architecture for Biomedical Monitoring Using Internet of Medical Things	
9	**11:20-11:30**	**Liliia Babinets, Nataliia Botsyuk, Iryna Halabitska, Nadiia Gashchyn, Oksana Sitkar** Information technology for decision support regarding differentiated treatment of pancreatitis and type 2 diabetes based on ROC analysis and logistic regression	https://youtu.be/z-TyW2cGjHM
10	**11:30-11:40**	**Dmytro Hasilin, Ihor Zhuravel, Yurii Zhuravel, Oleh Harasymchuk, Lesia Moroz** NeRF Model Weight Watermarking: Impact on Downstream AI Data Pipelines	https://www.youtube.com/watch?v=VEoZ5Dc_SHI&t=6s
		Coffee brake	
11	**12:00-12:10**	**Yevhen Darnapuk, Polina Kravchenko,Olga Yaremchuk** Biomedical Signal Processing on Arduino UNO Q: Evaluating MCU, MPU,	

		and Heterogeneous Execution	
12	**12:10-12:20**	**Sergii Pavlov, Dmytro Romanenko, Oleksandr Poplavskyi, Tetiana Piliavoz** Multi-Objective Optimization of Serverless Configuration using Genetic Algorithms	
13	**12:20-12:30**	**Oleksandr Volosovych, Sergii Pavlov, Oleksandr Poplavskyi, Valentyn Maslovskyi, Iryna Mezhiievska** Intelligent System for Automated Pathology Detection in Coronary Angiographic Image Processing	https://www.youtube.com/watch?v=om-CHvw4qbw&t=1s
14	**12:30-12:40**	**Nataliia Kravets, Inna Grod, Lubov Shevchyk, Lidiya Romanyuk, Sergii Klymnyuk** The correlation analysis between palatine tonsil microbiota and clinical features in acute tonsillitis using a bioinformatic pipeline	https://youtu.be/qm4HBZR--sU

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