



**16th International Conference
Dependable Systems, Services and Technologies
Greece, Corfu, October 2-4, 2026**

Time	ID	Session Title
Friday 2 October 2026		
11:30 – 13:30	S1.1	Workshop on Autonomous Platforms, Intelligent Applications, and Human-Centred AI I: Autonomous UAV Systems Navigation and Robotic Operations
11:30 – 13:30	S1.2	Workshop: Earth Intelligence for Safe and Resilient Recovery of Ukraine I
11:30 – 13:30	S1.3	Dependable Distributed Systems and Trustworthy AI Engineering
11:30 – 13:30	S1.4	Intelligent Threat Detection, Malware Analysis and Security Analytics
16:40 – 18:45	S2.1	Workshop on Autonomous Platforms, Intelligent Applications and Human-Centred AI II: Swarm Intelligence, Resilient Monitoring and Edge-Cloud Autonomy
16:40 – 18:45	S2.2	Intelligent Edge Systems, Connected Sensing and Cyber-Physical Applications
16:40 – 18:45	S2.3	AI-Enabled Digital Platforms, Smart Environments, and Critical Decision Support
16:40 – 18:45	S2.4	Cyber Security and Incident Response
Saturday 3 October 2026		
11:05 – 13:30	S3.1	Workshop: Autonomous Platforms, Intelligent Applications and Human-Centred AI, Computer Vision, Remote Sensing and Intelligent Monitoring
11:05 – 13:30	S3.2	Dependable Cloud Platforms, Intelligent Data Systems and AI-Enabled Digital Services
11:05 – 13:30	S3.3	Computational Intelligence, Formal Methods, and Resilient Decision Systems
11:05 – 13:30	S3.4	Intelligent Signal Processing, Vision and Data-Driven Modelling for Critical Applications
11:05 – 13:30	S3.5	Dependable Cyber-Physical Systems, Critical Infrastructure and Resilience
11:05 – 13:30	S3.6	Mathematical Foundations of Digital Signal Processing and Data-Driven Analytical Methods (in person)
16:45 – 18:45	S4.1	Workshop: Computer Vision, Remote Sensing and Intelligent Monitoring for Critical Environments
16:45 – 18:45	S4.2	Cybersecurity Operations, Digital Forensics and Human-Centred Trustworthy AI



Time	ID	Session Title
16:45 – 18:45	S4.3	Trustworthy AI, Intelligent Optimization and Human-Centred Digital Systems
16:45 – 18:45	S4.4	Cyber Resilience, Privacy-Preserving Technologies and Trustworthy AI Systems (in person)
Sunday 4 October 2026		
11:30 – 13:30	S5.1	Workshop: Autonomous Platforms, Intelligent Applications and Human-Centred AI Domain Applications, Human Factors and Societal Impact
11:30 – 13:30	S5.2	AI for Environmental Health and Societal Resilience
11:30 – 13:30	S5.3	Dependable Software Engineering, Trustworthy AI and Safety-Critical Decision Support
11:30 – 13:30	S5.4	Privacy Engineering, Cryptography and Information Protection
15:30 – 16:00		Round Table: AI versus and for Dependable Systems and Resilient Critical Infrastructures HERITAGE • ARCHITECTURE • MERIT

Please use the following links to connect to the following sessions: Plenary Talks, Round Table, and regular sessions:

- Sessions 1.1–5.1: <https://meet.google.com/www-accx-jzo>
- Sessions 1.2–5.2: <https://meet.google.com/ccc-pbro-fhy>
- Sessions 1.3–5.3: <https://meet.google.com/ggg-yosc-cvn>
- Sessions 1.4–5.4: <https://meet.google.com/ppp-qnan-vge>
- Sessions 3.5: <https://meet.google.com/nnn-kdgd-rdi>
- Sessions 3.6: <https://meet.google.com/zzz-bmbf-xux>



Friday 2, October 2026

Time	Activity
09:30 – 10:00	Opening Ceremony and Welcome Addresses: Ionian University, National Aerospace University “KhAI”, Hellenic Army Academy and University of Thessaly
10:00 – 10:40	Plenary Talk 1
10:40 – 11:20	Plenary Talk 2
11:20 – 11:30	Coffee Break
11:30 – 13:30	Parallel Sessions S1.1; S1.2; S1.3; S1.4
13:30 – 15:00	Lunch Break
15:00 – 15:40	Plenary Talk 3
15:40 – 17:40	Parallel Sessions S2.1; S2.2; S2.3; S2.4

10:00 – 10:40	Plenary Talk 1: Dr. Stylianos Karagiannis , Professor Department of Informatics Ionian University Corfu Next-Gen AI Cybersecurity: From Capture the Flag to Cyber Ranges and Large Language Models (LLMs) https://meet.google.com/www-accx-jzo
10:40 – 11:20	Plenary Talk 2: Patrick Upmann , Founder & Research Lead AIGN Research, AI Governance Advisor, Germany When AI Systems Begin to Act: Authority, Control and Accountability in Critical Infrastructure https://meet.google.com/www-accx-jzo

11:20 – 11:30	Coffee Break
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11:30 – 13:30	Parallel Sessions S1.1; S1.2; S1.3; S1.4
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Session S1.1	Workshop on Autonomous Platforms, Intelligent Applications and Human-Centred AI I: Autonomous UAV Systems, Navigation, and Robotic Operations Moderators: Prof. Ihor Turkin, Dr. Oleksandr Liubimov https://meet.google.com/www-accx-jzo	
ID	Paper Title	Authors
3	Optimization of MEMS IMU Array Cardinality for UAV Navigation: A Multi-Objective Framework Balancing Estimation Accuracy and Power Consumption	Muzychenko Adrian; Dunets Roman
6	Reliable TRL-Based Extraction of Intrinsic S-Parameters of Waveguide–Microstrip Transitions Using Cascade Matrix Decomposition	Yakymchuk Nataliia
37	Automated Post-Flight Analysis of UAV Event and Telemetry Logs Using Large Language Models	Vechtomova Daryna; Shevchenko Ilona; Turkin Ihor; Liubimov Oleksandr
75	Scenario-Based Assessment of Decision Models for UAV Route Recovery under Dynamic Hazards in Urban UTM Corridors	Hryhorenko Oleh; Kharchenko Volodymyr
162	A Computational Analysis of UAV Navigation and Inertial Measurement Variables for Battery-Level Prediction Using Principal Component Analysis, Extreme Gradient Boosting, and Explainable Artificial Intelligence	Pericles Giannaris, Demetrios Papachristos, Avraam Chatzopoulos, George Leventakis, Petros Savvidis, Romeos Bratskas, Nikolaos Zacharis
11:30 – 13:30	Parallel Sessions S1.1; S1.2; S1.3; S1.4	

Session	Workshop: Earth Intelligence for Safe and Resilient Recovery of Ukraine I	
S1.2	Moderators: Prof. Nataliia Kussul; Prof. Andrii Shelestov https://meet.google.com/ccc-pbro-fhy	
ID	Paper Title	Authors
17	Agricultural Fields Damage Detection in Ukraine Using Sentinel-2 Data and ConvLSTM Neural Network Architecture with Attentions	Shumilo Leonid; Drozd Sofiia; Kussul Nataliia; Skakun Sergii; Shelestov Andrii
26	Annual Tree Canopy Cover Mapping Using GEDI and Multi-Source Satellite Embeddings: A Case Study for Ukraine	Yailymov Bohdan; Yailymova Hanna; Chaskovskyy Oleh; Matushevskyy Oleksandr; Shelestov Andrii; Kussul Nataliia; Nosok Svitlana; Kolomytsev Mykhailo
10	Multi-Agent Framework for Scenario-Based Geospatial Modeling of Forest Biomass Dynamics under Natural and Anthropogenic Disturbances	Drozd Sofiia; Kussul Nataliia; Shelestov Andrii
16	From Land Cover Change to Geospatial Context: Assessment of Tree Cover Loss Statistics in Ukrainian Protected Areas During Russian Aggression from 2016 to 2025	Shumilo Leonid; Drozd Sofiia; Kussul Nataliia; Shelestov Andrii
19	Solar Panels Detection in Aerospace Imagery using Artificial Intelligence	Kashtan Vita; Fedorenko Andrii; Hnatushenko Volodymyr
39	Graph-Based Vulnerability Relationship Prediction Method	Klein Oleksandr Savenko Oleg
53	A Data-Driven Urban Digital Twin Prototype for Climate Risk Assessment in Odesa Ukraine	Ilnytskyi Yurii; Moroz Volodymyr



11:30 – 13:30	Parallel Sessions S1.1; S1.2; S1.3; S1.4
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Session	Dependable Distributed Systems and Trustworthy AI Engineering	
S1.3	Moderators: Prof. Halyna Klym, Dr. Andrii Karpenko https://meet.google.com/ggg-yosc-cvn	
ID	Paper Title	Authors
43	RTA-Raft-LE: A Reliability and Trust-Aware Raft-Based Leader Election Method for Distributed Systems	Oliinyk Pavlo; Oleg Savenko; Svystun Serhii
74	Dependability and Fault Tolerance in Hybrid WebAssembly Micro-Frontends: Deadlock Prevention and Security in Shared Memory Architectures	Stepanov Oleksandr; Klym Halyna
130	A Microservice Architecture for Distributed Execution of Large-Scale Audio DSP Graphs	Chaplia Oleh; Klym Halyna
80	The Illusion of Test Coverage: A Taxonomy of Hidden Test Coverage Gaps in Architecture-Aware LLM-Assisted Software Testing	Marchuk Yurii; Lyashkevych Vasyl; Shuvar Roman
107	The Illusion of Automation: Human-Centric Risks and the Dangers of Over-Reliance on AI in Cybersecurity Testing	Miedviediev Bohdan; Tetskyi Artem

11:30 – 13:30	Parallel Sessions S1.1; S1.2; S1.3; S1.4
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Session	Intelligent Threat Detection, Malware Analysis, and Security Analytics	
S1.4	Moderators: Prof. Anatoliy Sachenko, Prof. Sergii Lysenko https://meet.google.com/ppp-qnan-vge	
ID	Paper	Authors
21	Neural Constraint-Dependency Graphs for the Automated Security Analysis of Embedded Firmware	Mostovyi Oleksandr
41	Hybrid Method for Identifying Polymorphic Botnet Software Based on Behavioral Invariant Graphs	Holovatiuk Andrii; Savenko Oleg
46	Multimodal Information Technology for Detecting Hidden Threats in Images and Video Objects of Web Resources	Denysiuk Dmytro; Rehida Pavlo; Savenko Oleg; Lysenko Sergii; Savenko Bohdan; Sachenko Anatoliy
49	Dynamic Heterogeneous Graph Construction from Authentication and Network Events for Anomaly Analysis	Martsenkov Oleksandr; Savenko Oleg
40	From Logs to Profiles: Data-Driven Calibration of Attacker-Type Models for Game-Theoretic Honeypot Placement	Voznyi Kyrylo; Sachenko Anatoliy; Savenko Bohdan; Kashtalian Antonina; Lysak Viktor
70	Detecting Malicious Droppers Using Graph Attention over Dynamic API Call Graphs	Lyhun Oleksii; Sachenko Anatoliy; Savenko Bohdan; Dyvak Andriy
11:30 – 13:30	Parallel Sessions S1.1; S1.2; S1.3; S1.4	
13:30 – 15:00	Lunch Break	

15:00 – 15:40	Plenary Talk 3: Prof. Simon Parkinson , Professor of Cyber Security, Manchester Metropolitan University, United Kingdom Dormant permissions, active agents: what access control auditing teaches us about agentic AI https://meet.google.com/www-accx-jzo
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15:40 – 17:40	Parallel Sessions S2.1; S2.2; S2.3; S2.4
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Session S2.1	Workshop on Autonomous Platforms, Intelligent Applications, and Human-Centred AI II: Swarm Intelligence, Resilient Monitoring and Edge-Cloud Autonomy Moderators: Dr. Artem Tetskyi, Dr. Korolova Olha https://meet.google.com/www-accx-jzo	
ID	Paper Title	Authors
33	Swarm Intelligence: Implementing Trajectory Control of a Drone Swarm Using AI	Ovchynnykova Anna; Krytskyi Dmytro; Krikun Artem
77	An Approach to Evaluating the Application Autonomy of a Heterogeneous UGV-UAV System	Korolova Olha
96	Simulation-Based Evaluation of Hybrid Edge-Cloud Infrastructure for Mobile Intelligent Monitoring Systems	Kosarevskyi Bohdan; Tetskyi Artem
99	Dependable AI-Assisted Trajectory Control of UAV Swarms under Dynamic Disturbances	Sopov Iegor; Artomova Alina
120	Genetic-Pareto Reward Shaping for Self-Learning UAV Swarms with Multi-Feature Behavioral Adaptation	Rohatskyi Ihor; Lyashkevych Vasyl

15:40 - 17:40	Parallel Sessions S2.1; S2.2; S2.3; S2.4
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Session	Intelligent Edge Systems Connected Sensing and Cyber-Physical Applications	
S2.2	Moderators: Prof. Valerii Hlukhov, Dr. Svitlana Lavrenchuk https://meet.google.com/ccc-pbro-fhy	
ID	Paper Title	Authors
9	Benchmarking and Evaluation of JPEG-LS Compression for Onboard Satellite Data Processing: Analysis of Hardware Architectures and Splitting Strategies	Hrytsko Taras; Hlukhov Valerii
11	Budget-Matched Cooperative Subset Fusion Method for Wi-Fi Sensing in Multi-Node WLANs	Pavlenko Volodymyr; Hlukhov Valerii
60	Multi-Channel Voltage Monitoring Using ESP32: Algorithmic Calibration to Enhance ADC Accuracy	Lavrenchuk Svitlana; Zdolbitska Nina; Zdolbitskyi Serhii; Khrystynets Nataliia; Kaidyk Oleh; Melnik Kateryna
116	Cloud-Based UAV System for Meteorological Monitoring	Shevchuk Vladyslav; Tkachuk Taras; Klym Halyna
157	Cloud-Based Vehicle Accident Detection and Emergency Alert System Using Smartphone Sensors	N Sanjay; S Dinesh; M Divyadharshini
15:40 – 17:40	Parallel Sessions S2.1; S2.2; S2.3; S2.4	

Session	AI-Enabled Digital Platforms, Smart Environments, and Critical Decision Support	
S2.3	Moderators: Prof. Yuriy Kondratenko, Dr. Ievgen Sidenko https://meet.google.com/ggg-yosc-cvn	
ID	Paper Title	Authors
68	Machine Learning Model Serving Approaches with Kubeflow KServe Tool	Bershchanskyi Yevhen; Klym Halyna
71	Android-Based Smart Home Server Solution: Integration with Home Assistant and OpenAI	Bahniuk Nataliia; Melnik Kateryna; Lavrenchuk Svitlana; Bortnyk Kateryna; Pekh Petro; Mishchuk Nazarii
123	Mixed-Reality Decision Support for Humanitarian Demining: Cost-Field Pathfinding with Demining-in-the-Loop Replanning on an Untethered Headset	Oliinyk Oleg; Kliushnikov Ihor
48	Effectiveness-Driven Decision Support for Admissible Cyber-Incident Neutralization in Military Command and Control	Rybachok Gennadiy
47	Decision Support for AI-Powered Protection Against AI-Enhanced Influence Operations Targeting Safety-Critical Domains	Verholias Oleksandr
148	A Digital Twin Framework for Dependability-Driven Resilience Assessment of Military and Naval Port Infrastructures	Stathakis Georgios; Panagiota Konstantinou
15:40 – 17:40	Parallel Sessions S2.1; S2.2; S2.3; S2.4	



Session	Cyber Security and Incident Response	
S2.4	Moderators: Prof. Nataliia Cherniashchuk, Dr. Artem Tetskiy https://meet.google.com/ppp-qnan-vge	
ID	Paper Title	Authors
64	A Method for Vulnerability Detection in Web-Oriented Systems Using Large Language Models	Semenets Oleksandr; Tetskiy Artem
87	Model of Security Testing for Web Resources	Cherniashchuk Nataliia
93	Improving the DDoS Attack Laboratory Simulation Model for Educational Purposes	Cherniashchuk Nataliia
97	Penetration Testing of an Isolated Two-Segment Server Environment Based on the Integration of PTES OWASP WSTG and MITRE ATT&CK Methodologies	Cherniashchuk Nataliia
98	A Comparison of Automated Vulnerability Scanners and Manual Penetration Testing	Cherniashchuk Nataliia



Saturday 3, October 2026

Time	Activity
09:30 – 10:10	Plenary Talk 4
10:10 – 10:50	Plenary Talk 5
10:50 – 11:05	Coffee Break
11:05 – 13:30	Parallel Sessions S3.1; S3.2; S3.3; S3.4; S3.5; S3.6
13:30 – 15:00	Lunch Break
15:00 – 16:30	Parallel Sessions S4.1; S4.2; S4.3; S4.4
16:30 – 16:45	Coffee Break
16:45 – 18:45	Parallel Sessions S4.1; S4.2; S4.3; S4.4

09:30 – 10:10	<u>Plenary Talk 4:</u> Prof. Nikolaos Korfiatis , FRSA FHEA, Professor of Data Management at the Department of Informatics, Ionian University, Corfu Dependable Agentic AI in Regulated Environments: From Model Accuracy to System Accountability https://meet.google.com/www-accx-jzo
10:10 – 10:50	<u>Plenary Talk 5:</u> Prof. Marcello Cinque , Professor of Computer Engineering, University of Naples Federico II, Italy Assessing Timing Faults Robustness of Edge AI Accelerators with Driver-Level Fault Injection https://meet.google.com/www-accx-jzo

10:50–11:05	Coffee Break
11:05–13:30	Parallel Sessions S3.1; S3.2; S3.3; S3.4; S3.5; S3.6

Session S3.1	Workshop: Autonomous Platforms, Intelligent Applications and Human-Centred AI, Computer Vision, Remote Sensing and Intelligent Monitoring Moderators: Prof. Drozd Sofiia; Dr. Chevchovskyi Artem https://meet.google.com/www-accx-jzo	
ID	Paper Title	Authors
13	Regional NDVI Time-Series Dataset for Crop Type Classification: Construction Evaluation and Evidence for Domain-Specific Training in Ukrainian Agriculture	Khokholkov Oleksandr; Bulana Tetiana
29	Domain-Adaptive Automatic Modulation Classification for Non-Cooperative UAV and 5G/6G RF Environments	Kozlovskiy Valeriy; Bobrov Sergii; Tkachuk Anatolii; Yakymchuk Nataliia; Satsyk Oleksandr
32	Intelligent Swarm-Based Protection of Critical Infrastructure Against Coordinated UAV Attacks	Kaidan Elvira; Krytskyi Dmytro; Nikitchenko Oleksii; Chevchovskyi Artem
78	Comparison of the Informativity of Coherent and Incoherent Pol-SAR Image Processing Concepts for Small-Object Detection and Classification	Sydorov Yaroslav; Popov Anatoliy; Bortsova Mariya
79	Analysis and Simulation of Hybrid JPDA-MHT Radar Tracking Algorithms	Kariagin Vitaliy; Dunets Roman
110	Hybrid-Deterministic Fallback for Dependable LLM Provider Composition	Cherniatevych Anton; Drozd Sofiia; Kussul Nataliia; Shelestov Andrii; Giuliani Gregory; Poussin Charlotte

11:05–13:30

Parallel Sessions S3.1; S3.2; S3.3; S3.4; S3.5; S3.6

Session	Dependable Cloud Platforms, Intelligent Data Systems and AI-Enabled Digital Services	
S3.2	Moderators: Dr. Oleg Illiashenko, Dr. Vasyl Lyashkevych https://meet.google.com/ccc-pbro-fhy	
ID	Paper Title	Authors
102	Performance, Stability and Cost Benchmarking of AWS Lambda and Azure Functions for Event-Driven Workloads	Karpenko Andrii; Gorbenko Anatoliy; Panta Srijan; Safdari Fash
108	Empirical Analysis of Consistency Level Degradation Under Network Delay in Apache Cassandra	Bhadgaonkar Aarya; Gorbenko Anatoliy; Sheikh Akbari Akbar
56	Measuring Excessive Data Exposure in Agentic AI Workflow Automation: A Field-Level Empirical Study of n8n Workflows	Illiashenko Oleg; Ali Shoaib
69	A Jailbreak Against Open-Weight Large Language Models: Cross-Model Evaluation and Decoding Failure Analysis	Frost Arthur; Illiashenko Oleg; Schreuders Z. Cliffe
104	Performance-Aware Resource Optimization for Scheduling Containerized Workloads in Kubernetes Cluster	Shrestha Amit; Kumar Satish; Jawad Nawar
112	MONAIDry-FP: Medical Open Network for Artificial Intelligence Framework for the Detection of Dry Age-Related Macular Degeneration Using Deep Learning Models for Fundus Photography	Voderhobli Kiran; Mushtaq Sameera
121	Automated State-Based Progress Validation for Randomised Cyber Security Exercises	Shaw Thomas; Schreuders Z. Cliffe
140	Dependable Microgrid Energy Dispatch via Spatial Transfer Learning and Two-Stage	Vadurin Kyrlyo; Perekrest Andrii;

	Linear Programming Under Storage Constraints	Khrebtova Oksana
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11:05–13:30	Parallel Sessions S3.1; S3.2; S3.3; S3.4; S3.5; S3.6
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Session	Computational Intelligence Formal Methods and Resilient Decision Systems	
S3.3	Moderators: Prof. Volodymyr Zaslavskyi, Dr. Hanna Yailymova https://meet.google.com/qgg-yosc-cvn	
ID	Paper Title	Authors
22	Analytical Models Development Prospects for Modern Aviation Concepts	Polozhevets Hanna; Averyanova Yuliya; Znakovska Yevheniia
31	Early-Exit Detection of Divergent Behavior for MambaTS with Sparse Autoencoders	Yavorskyi Oleksandr; Shelestov Andrii; Brodina Emma; Yailymova Hanna
109	A Formal Model for Autonomous AI Agents	Polishchuk Kyrylo; Brezhniev Eugene
128	Multicriteria Security-Aware Load Balancing in PayTech Infrastructures of Smart Regions	Koliechkina Liudmyla; Pichugina Uzlov Dmytro Oksana
131	Frameworks for Robust Water Resource Management Under Uncertainty: Bridging Hierarchical Leader–Follower Decision Making and Two-Stage Stochastic Optimization	Zaslavskyi Volodymyr; Joachim (John) Schellnhuber; Komendantova Nadejda; Ermolieva Tatiana; Sfetsos Thanasis; Karakitsou Effrosyni; Knopov Pavlo; Gorbachuk Vasyi

147	Adaptive Neural Retraining Model for CNC Decision-Making under False-Positive and False-Negative Recognition of Dangerous States	Sokolov Sergii; Kharchenko Vyacheslav; Morozova Olga
111	An Iterative Framework for Ensuring Resilience in Virtual Reality Systems	Kachur Artem; Lysenko Sergii

11:05–13:30	Parallel Sessions S3.1; S3.2; S3.3; S3.4; S3.5; S3.6
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Session	Intelligent Signal Processing, Vision and Data-Driven Modelling for Critical Applications	
3.4	Moderators: Prof. Vladimir Lukin, Dr. Iryna Vasylieva https://meet.google.com/ppp-qnan-vge	
ID	Paper Title	Authors
18	Tile-Decomposed Vision Transformer for Mammographic Breast Density Classification	Gadiatskyi Volodymyr; Olevskyi Viktor; Ivanov Denys; Zavizion Viktor; Molodets Bohdan; Hnatushenko Volodymyr
57	BPG-Based Lossy Compression of Hyper-Height Remote Sensing Data	Kovalenko Bogdan; Lukin Vladimir; Arce Gonzalo; Okarma Krzysztof
100	Analysis of Correlation Properties of LiDAR Data as a Preliminary Step in the Procedures for Constructing Efficient Lossy Compression Algorithms	Vasylieva Iryna; Makarichev Viktor; Rubel Andrii; Arce Gonzalo; Ramirez-Jaime Andres; Okarma Krzysztof
129	Explainable Analysis of Textual Feature	Tymoshchuk Dmytro;

	Contributions to Correct and Incorrect Predictions in Emotion Classification	Stadnyk Mariia; Sverstiuk Andriy; Palianytsia Yuri; Dmytriv Volodymyr
138	Evidence Imbalance Bounds Training-Free Segmentation of 3D Gaussian Splats	Zaslavskyi Volodymyr; Pushkarenko Yurii
145	High-Performance Vector-Matrix Method for Polynomial Volterra Integral Operators in Modeling Complex Energy Systems	Verlan Andriy; Fedorchuk Volodymyr; Ivaniuk Vitaliy; Fomin Oleksandr

11:05–13:30	Parallel Sessions S3.1; S3.2; S3.3; S3.4; S3.5; S3.6
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Session	Dependable Cyber-Physical Systems Critical Infrastructure and Resilience	
3.5	Moderators: Prof. Volodymyr Peschanenko, Dr. Bohdan Savenko https://meet.google.com/nnn-kdgd-rdi	
ID	Paper Title	Authors
54	Comparative Analysis of Firmware Vulnerability Types in Computing System Hardware Components	Peschanenko Volodymyr; Novoselskyi Vitalii
72	Operation-Level Risk Assessment for Processing Critical Technological Information in SDN IaaS Pipelines	Huralnyk Oleksandr; Sachenko Anatoliy; Savenko Bohdan; Lysyi Andrii
101	A Practical Lifecycle-Oriented Harmonization Framework for Cybersecurity of Nuclear Power Plant I&C Systems: The Ukrainian Regulatory Context and Case Study	Chumachenko Oleksiy; Trubchaninov Serhii; Liubimov Oleksandr; Klevtsov Oleksandr; Berezhok Maryna
137	Detection and Analysis of AIS Position Anomalies During Wartime	Ikhsanov Shamil; Diakonov Oleksii

34	Reliability of Avionics as a Critical Component in the Integration of Manned and Unmanned Aircraft Systems	Khutorna Myroslava; Pantielleieva Natalia; Laiske Yevhenii; Goncharenko Olena; Stupka Bohdan; Zaporozhets Svitlana
66	Identification of Possible Failures in Redundant Non-Orthogonal Configurations of Inertial Sensors	Sushchenko Olha

11:05 – 13:30	Parallel Sessions S3.1; S3.2; S3.3; S3.4; S3.5; S3.6
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Session	Mathematical Foundations, Digital Signal Processing and Data-Driven Analytical Methods (in person)	
3.6	Moderators: Prof. Christos Koukouvinos, Prof. Spyridon Doukakis, https://meet.google.com/zzz-bmbf-xux	
ID	Title	Authors
4	On a 5D State-Space All-Pole Digital Filter	George Antoniou; Constantine Coutras
5	Phi, the Golden Ratio, 2D Continued Fraction Digital Filter: Circuit State-Space and Imaging	George Antoniou
105	Fast Estimates for the Generalized Cross-Validation Function	Panagiotis Maniatakis; Marilena Mitrouli
106	Multivariate Control Charts with PCA and Autoencoder	Chrysoula Valinou; Anastasia-Maria Karveloutsou; Christos Koukouvinos
154	Privacy-Preserving Sparse-View 3D Angiographic Reconstruction Using Homomorphic Encryption	Melitine Bardi; Konstantinos Delibasis
151	Accessibility Assurance for AI-Generated	Elissavet

	Educational Web Content: A Controlled Evaluation of WCAG-Aware Prompting and Audit-Informed Repair	Karageorgou; Konstantinos Lazaros; Spyridon Doukakis; Aristidis Vrahatis; Panagiotis Vlamos
113	Experimental Assessment of a Fidelity Index and a New Axes Arrangement Method	Leonidas Chousos
152	AI Native Delivery Experience Framework — IntDEX	Spyridon Ktenas
146	Functional Resilience Assessment of Cyber-Physical Systems under Degraded Environmental Conditions	Maevsky Dmitry; Bardis Nikolaos; Maevskaya Elena

13:30 – 15:00	Lunch Break
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15:00 – 16:30	Parallel Sessions S4.1; S4.2; S4.3; S4.4
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Session	Workshop: Computer Vision Remote Sensing and Intelligent Monitoring for Critical Environments	
S4.1	Moderators: Prof. Herman Fesenko, Dr. Yuliya Tanasyuk https://meet.google.com/www-accx-jzo	
ID	Paper Title	Author
12	Genetic Algorithm-Based Optimization of CNN Architectures with Max and SVD Pooling for GPR Image Classification	Lytvyn Vasyl; Peleshchak Ivan; Uzhva Oleksii; Peleshchak Roman; Nazarevych Oleksandr
28	Computer Vision-Based Methodology for Incipient Fire Hazard Detection in Resource-Constrained Embedded Systems: An ESP32-CAM Implementation	Ishchenko Artem; Rusalovsky Viktor; Kaliuzhnyi Leonid; Didenko Vasyl

58	Dimension-Aware Neural Computer Vision for Metric Calibration and Validation of Single-Image 3D Model Generation	Ariichuk Vitalii; Tanasyuk Yuliya
65	Semantic Segmentation of Underwater Images Based on Energy Functionals and U-Net Architecture	Nikolenko Kateryna; Moroz Volodymyr
114	Scale-Controlled Evaluation of Deep Learning Detectors for UAV-Based Explosive Ordnance Detection	Mishchuk Vadym; Fesenko Herman
142	Detecting Local Anomalies in Air-Quality Time Series: Empirical-Quantile and Approaches	Kirichenko Lyudmyla; Solianyik Viktor; Yakovlev Sergiy; Matsyi Olha; Hulianytskyi Andrii

15:00 – 16:30	Parallel Sessions S4.1; S4.2; S4.3; S4.4
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Session	Cybersecurity Operations, Digital Forensics and Human-Centred Trustworthy AI	
4.2	Moderators: Dr. Oleg Illiashenko, Dr. Oleksandr Verholiyas https://meet.google.com/ccc-pbro-fhy	
ID	Paper Title	Author
38	Forensic Analysis of I2P-Hosted Web Services: Investigation Framework for Law Enforcement	Bazli Behnam; Rahimi Hesam; Illiashenko Oleg; Trevorrow Pip
63	AI-Assisted Observability for Security Threats Detection in Cloud-Native Distributed Systems	Alromaihi Abdulla; Nguyen Ngoc Duc Anh; Kumar Satish; Jawad Nawar
76	Wiped Clean or Wide Open? The Security Reality	Trevorrow Pip;

	of Smartphone Factory Resets	Clayson Matthew; Scholey Andrew; Illiashenko Oleg
81	An AR-First Geospatial Network-Traffic Visualisation for Security Operations Centres: Design and Pilot Evaluation	Chambers Tom; Illiashenko Oleg
133	Generative AI as a Disrupter of Computing Education: Implications for Trustworthy AI Competence and Human-AI Learning	Campbell Jackie; Lazarevski Sanela
36	Application of Imitation Learning and Generative Adversarial Networks in the Context of Enhancing Robotic Manipulation	Voderhobli Kiran; Reddy Karnati Pavan Kalyan; Ranasinghe Menaka; Kor Ah-Lian

15:00 – 16:30	Parallel Sessions S4.1; S4.2; S4.3; S4.4
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Session	Trustworthy AI, Intelligent Optimization and Human-Centred Digital Systems	
4.3	Moderators: Prof. Tetiana Shmelova, Dr. Yulia Tanasyuk https://meet.google.com/ggg-yosc-cvn	
ID	Paper Title	Author
126	An Adaptive Stabilization Framework for Preventing Information Leakage in Dynamic and Adversarial Information Systems	Isaiev Tymur; Lysenko Sergii; Sochor Tomas; Lysenko Nadiia
156	VulnixAI: An AI-Powered Multi-Modal Platform for Automated Vulnerability Detection Real-Time Monitoring and Remediation	N Sanjay; M Divyadharshini
59	Methods for Generating a Voxel Environment for Testing and Training Unmanned Aerial Vehicles	Ukolov Bohdan; Tanasyuk Yulia

61	Effectiveness of Human and AI Cooperation in Training of Aviation Specialists: “Collaborative Decision-Making – Education” (CDM-E)	Shmelova Tetiana; Kovalyov Yuri; Sikirda Yuliya; Yatsko Maxim
15	Optimization of a Spiking Neuron Hardware Module Using Cartesian Genetic Programming	Kubai Oleh; Klyatchenko Yaroslav
8	Predictability of SPSC Lock-Free Queues for Inter-Thread Communication in Socially Oriented Information Systems	Strelchenko Andrii; Khovrat Artem; Kobziev Volodymyr; Uzlov Dmytro

15:00 – 16:30	Parallel Sessions S4.1; S4.2; S4.3; S4.4
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Session	Cyber Resilience Privacy-Preserving Technologies and Trustworthy AI Systems (in person)	
4.4	Moderators: Prof. Dmitry Maevsky, Prof. Spyridon Ktenas https://meet.google.com/ppp-qnan-vge	
ID	Paper Title	Authors
134	Hybrid Browser-Based Phishing Detection and CTF Training for Cyber Resilience	Dimitra Georgiou
136	From PCAP to AI: A Standardized Preprocessing Pipeline for Network Traffic Classification	Papalos Filippos; Doukas Nikolaos
124	Proteus: Constructing Semantically Equivalent Program Clones Using LLMs and Execution Traces	Ioannis Agadakos; Benita Kingsley Prince
30	Skill-Based Programming: An Invariant-Checked Architectural Pattern for Dependable Human-Aligned LLM Agents	Vyacheslav Koldovskyy
51	Are LLMs Stable Vulnerability Triage Assistants? A Dependability Study under Policy-Invariant Presentation Perturbations	Iosif Tsangko; Evangelos Gkoumas; Björn Schuller



16:30 – 16:45	Coffee Break
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16:45 – 18:45	Parallel Sessions S4.1; S4.2; S4.3; S4.4
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153	MeshCrowd: Privacy-Preserving Crowd and Vehicle Estimation Using Gamified Mesh Networks	Stylianios Karagiannis; Emmanouil Magkos; Christoforos Ntantogian
144	Hyperspectral Sub-Pixel Target Identification for Military Applications via Hybrid Classical-Quantum Machine Learning	Petros Stavroulakis
55	Topology-Aware Evaluation of Post-Quantum Signatures in Fabric-Inspired Ordering Networks	Athanasios Koulianos; Antonios Litke; Nikolaos K. Papadakis
135	Computer Vision for Sea-State Estimation	Nikolaos Doukas
122	Calibration of an Operational Regime-Duration Profile for Bitcoin Returns	Evangelos Varthis; Konstantinos Domouchtzis; Marios Poulos



Sunday, October 4, 2026

Time	Activity
10:00 – 10:35	Plenary Talk 6
10:35 – 11:15	Plenary Talk 7
11:15 – 11:30	Coffee Break
11:30 – 13:30	Parallel Sessions S5.1; S5.2; S5.3; S5.4
13:30 – 15:00	Lunch time
15:00 – 15:30	Plenary Talk 8
15:30 – 16:00	Round Table
16:00 – 16:30	Plenary Session 9: Awards and Closing Ceremony

10:00 – 10:35	<u>Plenary Talk 6:</u> Malgorzata Chalupowski, MD, PhD, JD Honorar Consul of the Republic of Poland, Massachusetts Executive Director, Copernicus Institute for the Arts, Sciences and Law, Inc. https://meet.google.com/www-accx-izo
10:35 – 11:15	<u>Plenary Talk 7:</u> Adam Ustynowicz Founder, Atlantic Freedom Network https://meet.google.com/www-accx-izo

11:15 – 11:30	Coffee Break
11:30 – 13:30	Parallel Sessions S5.1; S5.2; S5.3; S5.4

Session 5.1	Workshop: Autonomous Platforms, Intelligent Applications, and Human-Centred AI Domain Applications, Human Factors and Societal Impact Moderators: Dr. Maria Niari, Dr. Mark Israel https://meet.google.com/www-accx-jzo	
ID	Paper Title	Authors
14	EcoHubMap: A Geospatial Environmental Intelligence Framework for Sustainable Recovery and Ecological Resilience	Goncharova Natalia
27	A Methodology Capability Score for Comparative Evaluation of the Three-Tier KPI Specialization Methodology across Seven Governance KPIs	Israel Mark
35	Modeling Air Traffic Recovery after Prolonged Airspace Shutdown under Data Scarcity	Kuchmenko Vadym
125	Human-Free Embeddings from a Public Synthetic Image Corpus: A Multi-Stage One-Shot Filtering Methodology for Consent-Safe Dataset Release	Krak Yuri; Kuznetsov Vladyslav; Kulias Anatoliy; Barmak Olexander
150	Towards Dependable AI Facilitation in HyFlex Collaborative Learning: An Assurance-Based Framework for Participation Imbalance Detection and Human-Governed Intervention	Niari Maria; Doukakis Spyridon
11:30 – 13:30		Parallel Sessions S5.1; S5.2; S5.3; S5.4

Session	AI for Environmental Health and Societal Resilience	
5.2	Moderators: Prof. Zaslavskyi Volodymyr; Dr. Kobets Vitaliy; https://meet.google.com/ccc-pbro-fhy	
ID	Paper Title	Authors
52	Information System for Water Level Forecasting in the Danube Basin Using a Spatio-Temporal Graph Attention Network	Hovorushchenko Tetiana
118	A Personalized Inventory-Aware One-Day Home Meal Planning Model	Pichugina Oksana; Kirichenko Lyudmyla; Koliechkina Liudmyla
139	Application of Good Beekeeping Practice and Epizootiological Monitoring for Biosecurity in Apiculture	Zaslavskyi Volodymyr; Postoienko Volodymyr; Machuskyi Oleksandr; Zaslavskyi Volodymyr; Romanenko Oleg; Postoienko Hanna; Volokhovych Ihor
141	Traceable Decisions Without Backpropagation: Graph Concept Attractors for Handwritten Digit Recognition	Lapin Mykyta; Bokhan Kostiantyn; Parzhyn Yurii; Perevoznyk Kyrilo; Aleksandrova Tetiana
119	Context-Aware Event-Driven Approach to RFID-Based Patient Identification in Medical Information Systems	Smolenskyi Mykyta; Kondratenko Galyna; Sidenko Ievgen; Kondratenko Yuriy
73	Dynamic Supply Chain Transformations Enabled by Reinforcement Learning-Based Adaptation to Participant Networks	Kobets Vitaliy; Klionov Dmitriy

11:30 – 13:30	Parallel Sessions S5.1; S5.2; S5.3; S5.4
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Session	Dependable Software Engineering, Trustworthy AI and Safety-Critical Decision Support	
5.3	Moderators: Prof. Oleg Savenko, Prof. Inna Skarga-Bandurova https://meet.google.com/qgg-yosc-cvn	
ID	Paper Title	Authors
42	A Dependable Data Pipeline for Explainable Early Warning of Educational Risks: Collection Storage and Analysis under the EU AI Act	Paranyak Nataliya
44	Dependable AI-Driven .NET Obfuscation with Semantic-Equivalence Gating	Golovko Igor; Savenko Oleg
45	Uncertainty-Gated Risk-Constrained Search for Dependable Software Refactoring Decision Support	Prokofiev Igor; Savenko Oleg
127	Deterministic Guards for LLM-Assisted Requirements Graph Construction toward Safety-Critical Workflows: An Industrial Hardware Case Study with Run-to-Run Variance Analysis	Striapunin Anton
149	When Is the Top-Performing AI Upgrade the Wrong Replacement? Evidence from Anti-UAV Model Updates	Skarga-Bandurova Inna

Session	Privacy Engineering, Cryptography and Information Protection	
5.4	Moderators: Prof. Nikolaos Doukas, Dr George Stathakis https://meet.google.com/ppp-qnan-vge	
ID	Paper Title	Authors
50	A Texture-Guided Carrier Pixel Probing in Stego Images Formed by Adaptive Embedding Methods	Yatsura Pavlo; Progonov Dmytro
132	Propaganda Detection on Greek Social Media	Nikolaos Krystallis; Nikolaos Doukas



95	Securing Local File Systems via Authenticated Symmetric Encryption Using the Fernet Schema in Python	Cherniashchuk Nataliia
160	Fast Digital Signatures for Protection Against External Interference in IoT-Based Remote Monitoring Systems	Georgiou Dimitra; Markovskiy Oleksandr; Borges Jose; Bardis Nikolaos
161	A Fast Cryptographically Strong Identification Method Using Galois Field Algebra $GF(2^n)$	Georgiou Dimitra; Markovskiy Oleksandr; Borges Jose; Bardis Nikolaos

13:30 – 15:00	Lunch time
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15:00–15:30	<u>Plenary Talk 8:</u> DECISION MAKING IN THE VOID: Phronesis, Embodied Experience and the Future of Autonomous Systems Adam Ustynowicz Founder, Atlantic Freedom Network https://meet.google.com/www-accx-jzo
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15:30 – 16:00	<u>Round Table</u> AI versus and for Dependable Systems and Resilient Critical Infrastructures HERITAGE • ARCHITECTURE • MERIT Prof. Andrzej Rucinski, University of New Hampshire, USA Prof., DrS. Vyacheslav Kharchenko, National Aerospace University KhAI, Department of Informatics, National Academy of Science of Ukraine Prof., Dr Nikolaos Bardis, Hellenic Army Academy, Athens, Greece https://meet.google.com/www-accx-izo
16:00 – 16:30	<u>Plenary Session 9:</u> Awards and Closing Ceremony https://meet.google.com/www-accx-izo