



Program at a Glance

October 1st

Room: Amphitheatre Alkis Argiriadis

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| 8:30-9:40 | Registration |
| 9:40-10:20 | Addresses |
| | Prof. Antorweep Chakravorty, Steering Committee Chair |
| | Prof. Maria Tzamtzi, General Chair |
| | Major General Georgios Panousis, Director of the 6th Branch of the Hellenic National Defense General Staff Prof. |
| | Dr. Klaus Schöffmann, Program Chair |

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| 10:20-10:50 | Keynote 1: Prof. Dr. Gottfried Vossen, <i>University of Münster, Germany</i> , "Data and Language Model Markets" |
| 10:50-11:20 | Keynote 2: Prof. (FH) PD Dr. Mario Döller, <i>FH Kufstein Tirol – University of Applied Sciences, Austria</i> , "Re-Identification in Multi-Object Multi Sensor Tracking Environments" |

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| 11:20-11:50 | Coffee Break & Socialization |
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Research Track - Session 1a: Vehicular applications

Chair: Michael Skarpetis

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| 11:50-12:10 | J. Surbiryala <i>et al.</i> , An Evaluation of Data Pipelines with Large Language Models |
| 12:10-12:30 | D. Fragkoulis <i>et al.</i> , A Supervisory Control Scheme towards Exchanging Formations of a parametric number of Mobile Robots |
| 12:30-12:50 | M. Döller, Evaluation of Deep learning approaches for prediction of traffic accidents in DashCam Videos |
| 12:50-13:10 | F. Koumboulis <i>et al.</i> , A Fault Diagnosis based Safety Supervisor Control for an Automated Guided Vehicle with Faulty modes |

Room: Amphitheatre Ioannis Drakopoulos

Research Track - Session 1b: Ethics

Chair: Klaus Schöffmann

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| 11:50-12:10 | A. Amidi <i>et al.</i> , The use of "Ethics by Design" approach as a method to mitigate the challenges posed by automated decision-making systems in justice |
| 12:10-12:30 | R. Wiebe, Perception of Bias in AI-Generated News Articles: A Comparative Study between Generation X and Generation Z |
| 12:30-12:50 | C. Dell'Erba and A. M. Aurora Bevilacqua, Language of the research community in AI Ethics in Education: considerations of the present and perspectives for the future |
| 12:50-13:10 | K. Karpouzis, On the Impact of AI on Research Ethics |

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| 13:10-14:10 | Lunch |
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| 14:10-14:30 | Industry Talk 1: Thanasis Politis, <i>Solutions Architect, Public Cloud Group</i> , "Implementing a Retrieval-Augmented Generation System for Enhanced Document Access: A Case Study of the Greek National Documentation Center using AWS Cloud Services" |
| 14:30-14:50 | Industry Talk 2: Vasko Donev, <i>System Architect, Public Cloud Group</i> , "Automated Pothole Detection Using AWS Recognition for Road Monitoring" |

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Research Track - Session 2: Machine Learning

Chair: Gottfried Vossen

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| 14:50-15:10 | M. Al-Shouha and G. Szűcs, Is KAN More Interpretable Than MLP? A Comparative Study on Image and Text Data |
| 15:10-15:30 | M. Farmanbar <i>et al.</i> , Improving Early Dementia Detection with Advanced Language Models Based on Linguistic Features |
| 15:30-15:50 | M. Khanmohammadi <i>et al.</i> , Automatic Classification of Neurodegenerative Disorders Using EEG Data |
| 15:50-16:10 | G. De Gasperis <i>et al.</i> , HST-4: An Accountability Extension to Human-Swarm Teaming Architecture |

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| 16:10-16:30 | Coffee Break & Socialization |
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Research Track - Session 3: AI Applications in Business

Chair: Imran Tamboli

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| 16:30-16:50 | J. H. Plikas <i>et al.</i> , Utilizing Environmental, Social and Governance (ESG) and Machine Learning (ML) in Predicting Shipping Loan Defaults |
| 16:50-17:10 | C. G. Harris, Using Explainable AI (XAI) to Understand Sentiment Analysis of Hotel Reviews |
| 17:10-17:30 | M. Rondina <i>et al.</i> , Testing software for non-discrimination: an updated and extended audit in the Italian car insurance domain |
| 17:30-17:50 | A. Yassa <i>et al.</i> , The Social-based Credit Scoring Approach: New Insights for Eligibility using Social Media Data |
| 17:50-18:10 | S. Oliveira and S. Trento, Innovation Intermediaries, Spillover of Green Innovation, ESG Performance in Deep Tech Startups: Does Generative Artificial Intelligence Matter? |



October 2nd

Room: Amphitheatre Alkis Argiriadis

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| 9:00-9:20 | Registration |
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| 9:20-9:40 | Industry Talk 3: Nikiforos Botis, <i>Sr. Solutions Architect, Public Sector Greece/Cyprus/Malta, Amazon Web Services</i> , "Exploring (Gen)AI's Potential on AWS" |
| 09:40-10:00 | Industry Talk 4: Dr. Mihalis Kritikos, <i>Policy Analyst on AI Ethics and Trustworthy Governance of AI, Research Ethics and Integrity Sector, DG Research & Innovation, European Commission</i> , "Designing Ethical and Trustworthy AI Research Policies at EU level" |

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Research Track - Session 4a: Emerging topics

Chair: Maria Tzamtzi

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| 10:00-10:20 | M. Skarpetis and F. Koumboulis, Towards the design of Digital Hydraulic Systems using Fuzzy Logic Control |
| 10:20-10:40 | H. Grigoryan and D. Gunopulos, A Novel Deep Learning-Based Multi-Layer Framework for Imputing IoT Data with Large Missing Gaps |
| 10:40-11:00 | A. Menexis <i>et al.</i> , A Hierarchical Supervisor Scheme for a Parametric Flexible Chain/Ring Manufacturing Floor |
| 11:00-11:20 | A. Kalafatelis <i>et al.</i> , Utilizing Distributed Machine Learning Environments for Earthquake Detection |

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Research Track - Session 4b: AI inferential tools

Chair: Mina Farmanbar

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| 10:00-10:20 | I. Brini <i>et al.</i> , DocXAI-Pruner: Optimizing Semantic Segmentation Models for Document Layout Analysis via Explainable AI-Driven Pruning |
| 10:20-10:40 | P. S. Parasuraman Ravishankar and I. Kollia, CCL: An Ontology of Cultural Conceptualizations |
| 10:40-11:00 | N. Makris <i>et al.</i> , Multisubject classification of books and book collections based on multilingual subject-term |
| 11:00-11:20 | M. Leopold and K. Schöffmann, An Open-Source Presentation Video Retrieval System Using Transformers |

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| 11:20-11:50 | Coffee Break & Socialization |
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| 11:50-12:10 | Industry Talk 5: Imran Tamboli, <i>CTO, Simplifai AS, Norway</i> , "Transforming Insurance with Generative AI: Practical Insights from InsuranceGPT" |
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Research Track - Session 5: Industrial applications

Chair: Jayachander Surbiryala

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| 12:10-12:30 | S. Sutradhar <i>et al.</i> , Computer Component Disassembly using AI-based Object Detection and Collaborative Industrial Robot for Circular Management of WEEE |
| 12:30-12:50 | T. C. Drosou <i>et al.</i> , Metaheuristic Tuning of a Common Dual-Stage Controller towards Common I/O Decoupling and Common Model Following for a Differential |
| 12:50-13:10 | R. A. Artigues <i>et al.</i> , A self-adaptive ML pipeline for sustainable manufacturing |
| 13:10-13:30 | N. Kouvakas <i>et al.</i> , An Event-Driven Supervisory Control Design for a Robotic Cell in a Palletizing Process |

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| 14:30-15:00 | Keynote 3: Prof. Dr. Dionysios Benetos, <i>National and Kapodistrian University of Athens (NKUA), Greece</i> , "An AI Assisted Model for Transforming Manuscripts into Linked Annotated Data" |
| 15:00-15:20 | Industry Talk 6: Michail Kottas, <i>AI Engineer, IBM Technology - Greece & Cyprus</i> , "Now is the moment for responsible AI" |

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PhD Symposium Track – Session 6a

Chair: Nikolaos Kouvakas

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| 15:20-15:40 | A. Papathanasiou <i>et al.</i> , A Low-Power Analog Neural Network Classifier for Biomedical Applications |
| 15:40-16:00 | F. J. Pacis <i>et al.</i> , Domain-adapted Embeddings Model Using Contrastive Learning for Drilling Text Data |
| 16:00-16:20 | P. Rath-Manakidis <i>et al.</i> , ProtoP-OD: Explainable Object Detection with Prototypical Parts |
| 16:20-16:40 | M. Sulaiman <i>et al.</i> , Leveraging YOLOv8 Fine-Tuning and SEEM Inference for Accurate Building Segmentation Using RGB and LiDAR Datasets |

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PhD Symposium Track - Session 6b

Chair: George Chamilothis

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| 15:20-15:40 | A. Polyzos <i>et al.</i> , Complex Kalman Filter Gain Elimination |
| 15:40-16:00 | K.-F. Kollias <i>et al.</i> , A Digital Twin Design for Autism Intervention |
| 16:00-16:20 | P. Steigerwald and J. Albrecht, Enhancing Psychosocial Counselling with AI: A Multifaceted Support System for Professionals |
| 16:20-16:40 | K. Cheliotis <i>et al.</i> , A Low-Power Analog Vector-Length Calculator Classifier for Fetal Health Classification |

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| 16:40-17:00 | Coffee Break & Socialization |
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Room: IL GIARDINO - Garden Cafe Restaurant, Goudi Municipal Swimming Pool, Athens 115 27 (<https://www.ilgiardino.gr/>)

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| 19:30 | Closing Ceremony, Awards, Conference Diner |
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