



Program at a Glance

September 25th

Room: Ioannis Drakopoulos

8:00-8:20	Registration
8:20-8:25	Opening Remark by Steering Committee Chair
8:25-8:40	Address by General Chair
8:40-8:45	Address by PC Chair
8:45-8:50	Address by Local Chair
8:50-9:00	Address on behalf of NKUA

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9:00-9:30	Keynote 1: Leveraging DataOps to Enable Data-Driven Industry, by Tomasz Wiktorski (Data Operations Manager, Aker BP ASA, Norway)
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Research Track - Session 1a: AI & Machine Learning

Chair: Mina Farmanbar

9:40-10:00	S. Lamprinidis, <i>LLM Cognitive Judgements Differ From Human</i>
10:00-10:20	D. P. Gerogiannis et al., <i>The Machine Learning Pod (MLPod™) Canvas: An end-to-end methodology to design, build and deploy ML applications</i>
10:20-10:40	A. Vishwanath et al., <i>Exploring Affinity-based Reinforcement Learning for Designing Artificial Virtuous Agents in Stochastic Environments</i>
10:40-11:00	S. Kumar et al., <i>A Novel Hybrid Model of Word Embedding and Deep Learning to Identify Hate and Abusive Content on Social Media Platform</i>

Room: Kostis Palamas

Research Track - Session 1b: Automatic Control

Chair: Nikolaos Kouvakas

9:40-10:00	F. N. Koumboulis et al., <i>Modelling and Supervisor Design for a Baggage Handling System</i>
10:00-10:20	A. Menexis et al., <i>Towards Design and Implementation of Intelligent Manufacturing in Semiconductor Production Industry with Wafer Chamber Faults</i>
10:20-10:40	J. Sigalas et al., <i>Fault Tolerance of a Circular Manufacturing System in the framework of Supervisory Control Theory</i>
10:40-11:00	A. Dendis et al., <i>A Predictive Dynamic Programming Heuristic Approach For Inventory Control</i>

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11:00-11:30	Coffee Break & Socialization
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11:30-12:00	Keynote 2: A Europe for the Digital Age: EU AI Act, by Marianne Lie Howard (Director - Technology Law, Deloitte, Norway)
12:00-12:30	Industry Talk 1: AI-Driven Predictive Maintenance: Enhancing Reliability and Productivity in Industry 4.0, by Mr. Dimitrios Botsis (Innovation Manager, Member of iQnovus Team, Uni Systems)

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12:30-13:30	Lunch
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13:30-14:00	Keynote 3: AI Frontiers: Biosignals from Health to Industry, by Ulysse Côté-Allard (Co-Founder and CEO at SiFi Labs, Associate Professor of Cybernetics and Autonomous Systems, University of Oslo, Norway)
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Research Track - Session 2a: Optimization and Forecasting

Chair: Jayachander Surbiryala

14:00-14:20	M. Sakarvadia et al., <i>Optimizing Offshore Wind Turbine Reliability and Costs through Predictive Maintenance and SCADA Data Analysis</i>
14:20-14:40	M. Bogdan et al., <i>Multi-Objective Optimization of Federated Learning Systems in the Computing Continuum</i>
14:40-15:00	A. Polyzos et al., <i>Faster Complex Lyapunov Equation Solution Selection</i>
15:00-15:20	K. Blazakis et al., <i>One Day Ahead Wind Speed Forecasting based on Advanced Deep and Hybrid Quantum Machine Learning</i>

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Research Track - Session 2b: AI & Society

Chair: Michalis Skarpetis

14:00-14:20	C. Smit et al., <i>SALab: Computer-Supported Social Arrangements Laboratory</i>
14:20-14:40	I.-I. Plikas et al., <i>On the Relationship Between Artificial Intelligence (AI) and Economic Growth (GDP). The Case of Europe</i>
14:40-15:00	B. Olgen et al., <i>New Frontiers for AI, Eco-Art, and Public Space Intersection: Fostering Interactive Environmental Engagements</i>
15:00-15:20	A. Koskina et al., <i>AI-driven innovation and discoveries in space exploration: the need for an adapted regulatory regime</i>

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15:20-16:00	Coffee Break & Socialization
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Best Paper Session

Chair: Maria Tzamtzi

16:00-16:20	B. Atamanczuk et al., <i>Evolving Deep Neural Networks for Continuous Learning</i>
16:20-16:40	M. Rahmani et al., <i>Anomaly Detection in Multi-Robot Systems Exploiting Self-Awareness</i>
16:40-17:00	G. Tsamis et al., <i>Multi-Objective Reward-Based Algorithms for the Complete Coverage Path Planning Problem on Arbitrary Grids</i>
17:00-17:20	R. Schnitzer et al., <i>AI Hazard Management: A framework for the systematic management of root causes for AI risks</i>
17:20-17:40	N. D. Kouvakas et al., <i>A Reconfigurable Supervisory Control Algorithm for the Parametric Model of Multi-Elevator Systems in Mines</i>

September 26th

Room: Ioannis Drakopoulos

8:30-8:50	Registration
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9:00-9:30	Keynote 4: Deep and Shallow-Parallel Convolution Networks for Health Monitoring of Rotating Machinery, by Nalinaksh Vyas (Chairman - Technology Mission for Indian Railways (TMIR), Ministry of Railways, India)
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Research Track - Session 3a: Robotics

Chair: Klaus Schöffmann

9:40-10:00	I.-I. Plikas et al., <i>Assessing the Ethical Implications of Artificial Intelligence (AI) and Machine Learning (ML) on Job Displacement through Automation: A Critical Analysis of their Impact on Society</i>
10:00-10:20	D. Ziouzos et al., <i>An advanced Robotic System utilizing Convolutional Neural Networks for recycling</i>
10:20-10:40	T. C. Drosou et al., <i>A Mixed Analytic / Metaheuristic Dual Stage Control Scheme towards I/O Decoupling for a Differential Drive Mobile Robot</i>
10:40-11:00	J. Sigalas et al., <i>Design and Implementation of a 3D Printed Robotic Vision System connected to an Ontology-based Editor for Manuscript Transcription and Annotation</i>

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Research Track - Session 3b: AI Applications

Chair: Ajit Kumar Verma

9:40-10:00	K. Karpouzis, <i>Explainable AI for Intelligent Tutoring Systems</i>
10:00-10:20	N. van Geel, <i>EROS Ethical Robotic Systems. A Multi-level Framework for Integrating Ethics in Robotics and AI</i>
10:20-10:40	J. Wachter, <i>Patching Security Vulnerabilities using Stackelberg Security Games on Attack Graphs</i>
10:40-11:00	X. Yang et al., <i>An Interpretability Evaluation Framework for Decision Tree Surrogate Model-based XAIs</i>

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11:00-11:30	Coffee Break & Socialization
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11:30-12:00	Industry Talk 2: AI Journey in Greece, ecosystem, challenges and opportunities, by Georgios Karamanolis (Co-Founder & CTO/CIO, Crowdpolicy & FintelioX, Greece)
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12:30-13:30	Lunch
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13:30-14:00	Industry Talk 3: Artificial Intelligence and the Greek Innovation Ecosystem, by Stefanos Kollias (Professor of National Technical University of Athens, GRNET Chairman, Advisory Board Member AI Catalyst, Greece)
14:00-14:30	Keynote 5: Industrial Control in the Step-Wise Safe Switching Framework, by Fotis N. Koumboulis (Professor of Robotics and Industrial Automation; National and Kapodistrian University of Athens, Greece)

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14:30-15:00	Coffee Break & Socialization
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PhD Symposium - Session 4

Chair: George Panagiotakis

15:00-15:20	N. K. Voudouris et al., <i>Legal and Ethical dimensions in Addressing Human Rights in the design and implementation of Artificial Intelligence</i>
15:20-15:40	N. Kanwal et al., <i>Balancing Privacy and Progress in Artificial Intelligence: Anonymization in Histopathology for Biomedical Research and Education</i>
15:40-16:00	M. Sulaiman et al., <i>Precision in Building Extraction: Comparing Shallow and Deep Models using LiDAR Data</i>
16:00-16:20	N. Hori et al., <i>Real-time Isolated sign language recognition</i>
16:20-16:40	V. Alimisis et al., <i>A Low-Power Analog Bell-shaped Classifier based on Parallel-connected Gaussian function circuits</i>
16:40-17:00	A. Laalou et al., <i>Towards a Computationally Efficient Solution of the Inverse Kinematics problem using Machine Learning</i>

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19:15	Conference Dinner, Best RT Paper Award, Best PhD Paper Award
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