



ICETASI 2026 SCHEDULE

Thursday, September 24, 2026

TIME	ROOM A (MAIN HALL)
10:00-11:00	Installations
11:00-12:00	Smart Cities, Urban Environment, and Digital Applications Chairs: K. Poirazidis, A. Martinis, G. Stavridis • Stylianos Palladinos, Department of Environment, Ionian University, Greece: GIS-Based Multicriteria Assessment and Spatial Mapping of Urban Quality of Life: The Case of Zakynthos, Greece <i>Authors: Stylianos Palladinos, Katerina Kabassi, Pantelis S. Apostolopoulos, and Konstantinos Poirazidis</i> • Georgios Kefalas, Department of Environment, Ionian University, Zakynthos, Greece: Urban Landscape Configuration and Seasonal Land Surface Temperature in Metropolitan Athens <i>Authors: Georgios Samoilis, Georgios Kefalas, and Konstantinos Poirazidis</i> • Zakynthos Chamber of Commerce: Augmented reality APP presentation • Ioannis Konstantinidis, Independent Researcher, Greece: Hierarchical Bayesian Spatial Framework for Air Quality Imputation in Sparse Sensor Networks <i>Authors: Ioannis Konstantinidis and Gerasimos Pylarinos</i>
12:00-12:30	Coffee Break
12:30-13:15	• Plenary: K. Kabassi, Department of Environment, Ionian University, Greece: From Theory to Impact: Multi-Criteria Decision Making as an Engine for Applied Innovation in Sustainability and Cultural Heritage (45')
13:15-17:00	Free time



17:00-18:00	Geoinformatics in Agriculture and Ecosystem Management Chairs: K. Poirazidis, G. Lykokanellos, G. Stavridis Georgios Stavridis, Laboratory of Environmental Management and Sustainable Development, Department of Environment, Ionian University, Greece: From Meteorological Recovery to Soil-Water Persistence: A Native-Grid Multiscale Drought Framework for the Ionian Islands, Greece (1981-2024) <i>Authors: Georgios Stavridis, Konstantinos Poirazidis, Pantelis Apostolopoulos, and Panteleimon Xofis</i> Georgios Lykokanellos, Department of Agriculture, University of Patras, Greece: An Integrated Sustainable Floriculture Model Combining Soilless Propagation Systems, Auxin Optimization and Indus-try 4.0 Automation <i>Authors: Georgios Lykokanellos, Aglaia Liopa-Tsakalidi, and Vasileios Thomopoulos</i> Myron Skandalakis, Department of Environment, Ionian University, Greece: Diachronic Assessment of the Suitability of Bee Habitats within the Natura 2000 Areas of Crete <i>Authors: Myron Skandalakis, Konstantinos Poirazidis, Katerina Kabassi and Aristotelis Martinis</i> Konstantinos Asiklaris, Department of Environment, Ionian University, Greece: Computer Vision – Based Approach for Estimating Dimensions of Olive Trees <i>Authors: Konstantinos Asiklaris, Katerina Kabassi, and Aristotelis Martinis</i>	
18:00-18:15	Coffee Break	
18:15-19:00	Welcome Session	
19:00-19:15	Break	
TIME	ROOM A (MAIN HALL)	ROOM B (HALL 1)
19:15-20:15	AI in Education & STEAM Track 1 - Artificial Intelligence and Digital Innovations in Education and Interactive Systems Chairs: K. Kabassi, K. Antonopoulos, G. Pylarinos Dionisios Zougras, Department of Environment, Ionian University Zakynthos, Greece: Exploiting Teachers' Proficiency in Harnessing Artificial Intelligence for Physical Education <i>Authors: Dionisios Zougras, Ilias Flabouras Nietos, and Katerina Kabassi</i> Ramazan Ertuğrul Aydoğan, Department of Communication and Computer Engineering, Faculty of Engineering, South West University "Neofit Rilski", Bulgaria Gaziantep University, Gaziantep, Türkiye: Facial Identification and Attendance Infrastructure for Adaptive Smart Classrooms: An Edge Prototype and Open-Set Benchmark <i>Authors: Ramazan Ertuğrul Aydoğan, Fatima Sapundzhi, Berat Çiftçi, Öykü Boğazkesenli, and Slavi Georgiev</i>	HMS Workshop Session 1 Chairs: A. Papadopoulos, S. Mpaleli, A. Kapatou G. Christopoulou: Exploring Geometric and Topological Models through 3D Printing: Utilizing Holden and Escher 3D Models in a School STEAM Group Στρογγυλό τραπέζι : Η θέση των Μαθηματικών στο σύγχρονο τοπίο της εκπαίδευσης (Panel Discussion: The place of Mathematics in the modern landscape of education - in Greek) Moderator: A. Kalampoka



- **Hristo Ivanov**, Department of Computer Science, Varna Free University “Chernorizets Hrabar”, Bulgaria: **A framework for interactive visualization and Evaluation of Classical Shortest-Path Algorithms in a Grid-Based Game**
Authors: Hristo Ivanov, Fatima Sapundzhi, Antonina Ivanova, and Meglena Lazarova
- **Konstantinos Chrysanthos Sofianos**, Department of Informatics, Ionian University, Greece: **A Results-Based Evaluation Framework for Smart Learning Environments: Use Cases, User Testing, and Validation Design of the OSEME Platform**
Authors: Konstantinos Chrysanthos Sofianos, Michael Stefanidakis, Manolis Maragoudakis, Alexios Kaponis, and Linas Bukauskas



Friday, September 25, 2026

TIME	ROOM A (MAIN HALL)	
09:00-15:00	Optional Excursion: Zakynthos day tour: Bochali – Agios Nikolaos – Shipwreck beach, Blue caves – Anafonitria – Therianos Family Farm – 6 hrs €25	
09:45-11:00	Emerging Technologies and Applied Innovations in Modern Infrastructure Chairs: C. Antonopoulos, K. Antonopoulos, E. Merkoulidi • Zakynthos Municipality Presentation • C. Antonopoulos, ECE Department, University of Peloponnese, Patras, Greece: Low-Cost BLE AoA Exploration Capabilities Leveraging Statistical Analysis of RSSI and I/Q Features <i>Authors: Georgios Tsikelis, Konstantinos Antonopoulos, Christos Antonopoulos and Nikolaos Voros</i> • Eleftheria Merkoulidi, Solar Energy Laboratory, Department of Physics, University of Patras, Greece: Smart Windows for Energy-Efficient Buildings: From Electrochromic to Self-Powered Photo-electrochromic Technologies <i>Authors: Eleftheria Merkoulidi and George Syrokostas</i> • Rami Ahmed Mohammed, College of Electromechanical Engineering, University of Technology-Iraq, Baghdad, Iraq: Simulation-Based Intelligent Multi-Aircraft Formation Navigation System Using PID Control and Particle Swarm Optimization Under Realistic Environmental Conditions <i>Authors: Rami Ahmed Mohammed, Mohammed Qasim Sulttan, and Wisam Essmat Abdul-Lateef</i>	
11:00-11:30	Coffee Break – Poster Exhibition	
TIME	ROOM A (MAIN HALL)	ROOM B (HALL 1)
11:30-13:00	Advanced Cyber-Physical Systems and Applied AI Chairs: P. Apostolopoulos, V. Thomopoulos, K. Sofianos • Invited: Mohd Nazri Bin Ismail, Faculty of Science and Defence Technology, National Defence University of Malaysia, Malaysia: Network Behavior Monitoring using Deep Learning Techniques (30') • Vasileios Thomopoulos, Department of Computer Engineering and Informatics, University of Patras, Greece: An Agent-Based Simulation of the Greek Electricity Market under Extreme Weather Scenarios <i>Authors: Vasileios Thomopoulos, Georgios Stergiou, and Kostas Tsihclas</i>	Applied Engineering and Sustainable Infrastructure Chairs: I. Konstantinidis, C. Priovolos, A. Kaponis • Rana Nezar Dawood, University of Technology Mechanical Engineering College, Iraq: Investigation of Natural Convection Heat Transfer in Two Vertical Heated Walls Partially Filled with Porous Media <i>Authors: Rana Nezar Dawood, Ali L. Ekaid, and Nabeel Sameer Mahmoud</i> • Mohammed Zainel Qader, North Oil Company - Field Division - Department of Geology, Iraq: Assessment of the Sulfate Attack Susceptibility of Cementitious Materials in Urban Development Areas of Northeastern and Southern Kirkuk, Iraq



	• Dionysia Varvarigou, University of Patras, Greece: Edge-AI-Based Multi-Modal Soil Organic Matter Estimation Using RGB, Spectral, and Munsell Color Representations <i>Authors: Mario Fahim, Dionysia Varvarigou, Aliko Panagiotarou, Pantelis Barouchas, and Paris Kitsos</i> • Antonio T. Alexandridis, Department of Electrical and Computer Engineering, University of Patras, Patras, Greece: Nonlinear Modeling and Coordinated Control Strategies for Studying HVDC-connected RES/ESS to the Grid <i>Authors: Nikolaos C. Psychalinos, Panos C. Papageorgiou, Theodosia A. Alexandridis, George C. Konstantopoulos, and Antonio T. Alexandridis</i> • Agisilaos Kolliopoulos, University of Patras, Greece: Scenario-Based People-Process-Technology Mapping for Social Engineering Awareness <i>Authors: Agisilaos Kolliopoulos, Dionysia Varvarigou, Kostas Lampropoulos, Spyros Denazis, and Paris Kitsos</i>	<i>Authors: Zainel Qader, Junaid Fouad Kareem, Elaf Mohammed Shakir, Lizan Ahmed Saleh, Hiba Hasan Sultan, Hiyam Ali Fadhil, and Belen Ali Saeed</i> • Klodjan Xhexhi, Architecture and Engineering Department, Polis University, 1051 Tirana, Albania: Recycled Composite Panels for Sustainable Interior Architecture: Density, Water Absorption, and Capillary Action <i>Authors: Klodjan Xhexhi, Blerim Nika, Ledian Bregasi, Ilda Rusi, Sonia Jojic, and Nikolla Vesho</i> • Hussain Ali Mutar, Electrical Engineering Department, College of Engineering, Wasit University, Wasit, Iraq: Swarm UAV-IoT Networks for Disaster Assessment: A Delay-Tolerant, Energy-Balanced Approach <i>Authors: Isam Aameer Ibrahim, Ibtisam A. Aljazeera, Hussain Ali Mutar, Ibtihal R. N. ALRubeei, and Haider TH. Salim AlRikabi</i> • Christos Priovolos, Department of Materials Science, School of Natural Sciences, University of Patras, Greece: Simulation of nitrate reduction in electrocoagulation for aluminum neat and aluminum/biochar cathode via COMSOL Multiphysics®
13:00-16:00	Free time	
16:15-16:45		HMS Workshop Session 2 - Education & STEAM Track 2 Chairs: M. Birba, E. Lagogianni, S. Gialpa • F. Spyropoulou: An Instructional Approach to the Pythagorean Theorem • T. Baltasvias: A Geometric Inequality Derived from the Distance Between Two Points in Any Triangle
16:45-17:00	Break	



TIME	ROOM A (MAIN HALL)	ROOM B (HALL 1)
17:00-18:00	Emerging Technologies and Innovations in Healthcare: AI, Digital Health, and Medical Imaging 1 Chairs: S. David, V. Thomopoulos, G. Kolliotsis Invited: Fon Hah, Clinic to Cloud, Australia: Artificial Intelligence- Enabled Practice Management Software: Strategic and Clinical Implications for Healthcare Delivery in Australia and Europe (30') Vasileios Thomopoulos, Department of Computer Engineering and Informatics, University of Patras, Greece: Extending a Multilayer Agent-Based Model for COVID-19 Transmission with Public Transport and Church Attendance Layers: A Case Study for Patras, Greece <i>Authors: Vasileios Thomopoulos and Panagiotis Tzoudas</i> Georgios Kolliotsis, University of Patras, Greece: Experimental evaluation of inorganic LGSO: Ce scintillators for applications in Medical Imaging <i>Authors: Georgios Kolliotsis, Nikolaos Potiriadis, Ioannis Roussakis, Despoina Sinapi, and Stratos David</i>	HMS Workshop Session 3 - Education & STEAM Track 3 Next-Generation STEM Practices in Primary and Secondary Education Chairs: A. Gioka, P. Milesi, T. Baltasvias K. Desiniotis: A multifactorial model for quantifying and evaluating learning performance in STEM environments <i>Authors: O. Boltsi, K. Desiniotis, E. Kremesi</i> E. Lagogianni: An exploratory approach to teaching parabola in the 1st year of high school using GeoGebra and geometric transformations M. Birba & G. Adamopoulou: Fighting the flames – An STEM interschool study <i>Authors: M. Birba, G. Adamopoulou, I. Georgiou</i> A. Ntafogianni: Game-Based Learning and Interdisciplinarity: Foundations and Practical Application through the "Panepistimonas: The Science Quiz" Game in Junior High School <i>Authors: A. Ntafogianni, E. Kolatou</i>
18:00-18:20	Coffee Break	
18:20-19:10	Emerging Technologies and Innovations in Healthcare: AI, Digital Health, and Medical Imaging 2 Chairs: S. David, I. Roussakis, I. Tsilikis Stratos David, Department of Biomedical Engineering, University of Western Attica, Athens, Greece: Experimental evaluation of BGO inorganic single-crystal scintillators with silicon photomultiplier (SiPM) photodetector <i>Authors: Despoina Sinapi, Ioannis Roussakis, Georgios Kolliotsis, Potiriadis Nikolaos, and Stratos David</i> Ashwini Sapkal, Department of Information Technology, Army Institute of Technology, Pune, India: Designing a Digital Second Brain: An AI-Powered Cognitive Assistant for Memory Support and Daily Living in Alzheimer's Patients	HMS Workshop Session 4 Chairs: A. Papadopoulos, A. Giannakopoulou, E. Kolatou Invited: A. Gioka, Teacher Education Advisor, Primary Education Directorate of Corinth, Greece: Applying Design Thinking to Promote Inclusive and Quality Education in Primary Education (30') Fotios D. Oikonomou, University of Patras, Department of Physics, Patras, Greece: Product-state manifolds for M quantum systems with N levels using the Fano form and the induced Euclidean metric



	<i>Authors: Ashwini Sapkal, Trupti Najan, Rachit Kumar, Ishu, Pranav and Devesh Saraswat</i> Ioannis Roussakis, Department of Biomedical Engineering, University of West Attica, Greece: Comparative Evaluation of Various Inorganic Scintillation Crystals Coupled by a SiPM Detector in the Energy Range of 81keV up to 1333keV <i>Authors: Ioannis Roussakis, Nikolaos Potiriadis, Georgios Kolliotsis, Despoina Sinapi, and Stratos David</i>	
19:10-19:30	Break	
19:30-20:45	Στρογγυλό Τραπέζι: Κυκλική Οικονομία (Panel Discussion: Circular Economy – in Greek) D. Avgerinopoulou, Chairman of the Special Standing Committee on Environmental Protection of the Parliament A. Aygoustinou, Deputy Mayor of Zakynthos M. Meimaris, Professor Emeritus, National and Kapodistrian University of Athens, Greece UNESCO @ Zakynthos A. Kyritsis, Associate Professor, Department of Environment, Ionian University, Greece Zakynthos Chamber of Commerce representative	
21:30	Conference dinner – social event, <u>Alektor Restaurant</u>	



Saturday, September 26, 2026

TIME	ROOM B (HALL 1)
09:00-13:00	Official Conference Excursion: Zakynthos half-day tour: Laganas Bay, Turtle spotting – Marathonisi – Turtle Island – Keri Caves. 4 hrs.
11:00-12:00	HMS Session 5 Chairs: A. Kalampoka, A. Kapatou, I. Konstantinidis - Invited: Dionysios Karavidas, Assistant Professor, PhD - Fellow of the Higher Education Academy UK: AI in education, advantages and concerns (15') Pinelopi Milesi: Playing with Chaos A. Giannakopoulou: Utilizing Artificial Intelligence and Digital Learning Tools to Enhance Student Engagement in Secondary Education <i>Authors: A. Giannakopoulou, E. Varela</i>
12:00-12:15	Break
12:15-12:45	HMS Session 6 Chairs: D. Pothos, F. Oikonomou, F. Margari Invited: Konstantinos Kaminakis, Assistant Professor, Department of Marketing and Communication, Athens University of Economics and Business, Athens, Greece: AI in Marketing: From Emerging Trends to Everyday Practice (30')
12:45-16:45	Free time
TIME	ROOM A (MAIN HALL)
16:45-17:30	Emerging Technologies for Smart Cities Chairs: C. Antonopoulos, E. Faliagka, F. Oikonomou Evanthia Faliagka, ECE Department, University of Peloponnese, Patras, Greece: Designing Digital Twin Specifications for Urban Mobility Optimization in Patras and Nicosia <i>Authors: Evanthia Faliagka, Tanya Politi, Christiana Ioannou, Ioannis Tsampras, Natalie Temene, Vasos Vassiliou, Christos Antonopoulos, Nikos Voros, Spyros Denazis</i> George R. Ivanov, University Laboratory "Nanoscience and Nanotechnology", University of Architecture, Civil Engineering and Geodesy (UACEG), Sofia, Bulgaria: The First 5-in-1 System for Real-Time Investigation of Langmuir Films. Monolayers from a Fluorescently Labeled Phospholipid DPPE-NBD <i>Authors: George R. Ivanov and Asen Dimov</i>



	Ioannis Tsilikis, Electrical and Computer Engineering Department, University of Peloponnese, Patras, Greece: EMERGE-XR: Intent-Driven Low-Latency 5G for Real-Time Extended Reality Emergency Medical Guidance <i>Authors: Ioannis Tsilikis, Christos Panagiotou, Konstantinos Antonopoulos, Michael Paraskevas, Vaggelis Kapoulas, Christos P. Antonopoulos, and Nikolaos Voros</i>
17:30-17:45	Coffee break
17:45-18:15	Chairs: D. Panagiotaras, D. Pothos, C. Antonopoulos Invited: Michael Meimaris, Professor Emeritus, National and Kapodistrian University of Athens, Greece: From Data to Meaning: Why Technology Needs Stories (30')
18:15-18:30	Awards Best Paper (1st place, 2nd place) Best Poster Best Presentation Closure

Posters	Investigation of Microstructure, Optical and Thermal Properties of La-doped Al₂O₃, Synthesized via Sol-Gel <i>Authors: Israa A. Najem, Wurood Asaad Midab, Shaimaa J. Kareem, Nagham Yass Khudair, Ministry of Electricity, Baghdad, Iraq</i> Hybrid Forecast-Graph Reinforcement Learning for Multi-Timescale Voltage Control in Distribution Systems: Simulation Centered Evaluation of a Safe Hybrid AI Model <i>Authors: Haider TH. Salim ALRikabi, Ali F. Rashid, Hussain Ali Mutar, Huda Abbas Kanber, and Ibtihal, R. Niama AL-Rubeei, Wasit University, Iraq</i> A Hierarchical AI Framework for Safe RL-Based Control in Distribution Networks <i>Authors: Haider TH. Salim ALRikabi, Wasit University, Iraq</i> Reactive Adsorption Drives Reconstruction Lifting on O/Au(110)-(1×2) <i>Authors: Stavros Karakalos, Research Core Facilities. UC Merced, Merced, California, USA</i> Ethical Digital Marketing and Machine Learning: An Integrative Review and Human-Centered Conceptual Framework <i>Authors: Alexios Kaponis and Manolis Maragoudakis, Ionian University, Greece</i> Experimental Evaluation of DyGED for Event Detection in Dynamic Graphs <i>Authors: Konstantinos Christopoulos, Nikolaos Katseris, and Christos Konstantopoulos, Department of Electrical and Computer Engineering, University of Patras, Patras, Greece</i>
----------------	--

Note: HMS sessions and panel discussions will be conducted in Greek

