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** *Authors: Stylianos Palladinos, Katerina Kabassi, Pantelis S. Apostolopoulos, and Konstantinos Poirazidis* • **Georgios Kefalas**, Department of Environment, Ionian University, Zakynthos, Greece: **Urban Landscape Configuration and Seasonal Land Surface Temperature in Metropolitan Athens** *Authors: Georgios Samoilis, Georgios Kefalas, and Konstantinos Poirazidis* • **Ioannis Konstantinidis**, Independent Researcher, Greece: **Hierarchical Bayesian Spatial Framework for Air Quality Imputation in Sparse Sensor Networks** *Authors: Ioannis Konstantinidis and Gerasimos Pylarinos*
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**

DEPARTMENT OF ENVIRONMENT
IONIAN UNIVERSITY

Municipality of Zakynthos

ΕΠΙΜΕΛΗΤΗΡΙΟ ΖΑΚΥΝΘΟΥ
ZAKYNTHOS CHAMBER OF COMMERCE

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)** *Authors: Georgios Stavridis, Konstantinos Poirazidis, Pantelis Apostolopoulos, and Panteleimon Xofis* • **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** *Authors: Georgios Lykokanellos, Aglaia Liopa-Tsakalidi, and Vasileios Thomopoulos* • **Myron Skandalakis**, Department of Environment, Ionian University, Greece: **Diachronic Assessment of the Suitability of Bee Habitats within the Natura 2000 Areas of Crete** *Authors: Myron Skandalakis, Konstantinos Poirazidis, Katerina Kabassi and Aristotelis Martinis* • **Konstantinos Asiklaris**, Department of Environment, Ionian University, Greece: **Computer Vision – Based Approach for Estimating Dimensions of Olive Trees** *Authors: Konstantinos Asiklaris, Katerina Kabassi, and Aristotelis Martinis*	
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** *Authors: Dionisios Zougras, Ilias Flabouras Nietos, and Katerina Kabassi* • **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** *Authors: Ramazan Ertuğrul Aydoğan, Fatima Sapundzhi, Berat Çiftçi, Öykü Boğazkesenli, and Slavi Georgiev*	**HMS, Branch of Helias, 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**

HELLENIC REPUBLIC · IONIAN UNIVERSITY 1984 ·

DEPARTMENT OF ENVIRONMENT
IONIAN UNIVERSITY

Municipality of Zakynthos

HELLENIC MATHEMATICAL SOCIETY · HELIAS BRANCH · ΙΝΝΙΑΣ ΗΛΕΙΟΣ 2007

ΕΠΙΜΕΛΗΤΗΡΙΟ ΖΑΚΥΝΘΟΥ
ZAKYNTHOS CHAMBER OF COMMERCE

	• **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** • **N. Kottis**, Department of Computer Engineering and Informatics, University of Patras | Vice Mayor of Development Planning & European Programs of the Municipality of Zakynthos: **Sustainable Tourism Development and Local Cultural Identity: Challenges and Prospects for Safeguarding Cultural Heritage and Protecting the Natural Environment in Areas Experiencing Rapid Tourism Growth** • **C. Antonopoulos**, ECE Department, University of Peloponnese, Patras, Greece: **Low-Cost BLE AoA Exploration Capabilities Leveraging Statistical Analysis of RSSI and I/Q Features** *Authors: Georgios Tsikelis, Konstantinos Antonopoulos, Christos Antonopoulos and Nikolaos Voros* • **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** *Authors: Eleftheria Merkoulidi and George Syrrokostas* • **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** *Authors: Rami Ahmed Mohammed, Mohammed Qasim Sulttan, and Wisam Essmat Abdul-Lateef*
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, G. Pylarinos** • **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** *Authors: Vasileios Thomopoulos, Georgios Stergiou, and Kostas Tsichlas* • **Dionysia Varvarigou**, University of Patras, Greece: **Edge-AI-Based Multi-Modal Soil Organic Matter Estimation Using RGB, Spectral, and Munsell Color Representations**	**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** *Authors: Rana Nezar Dawood, Ali L. Ekaid, and Nabeel Sameer Mahmoud* • **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**

HELLENIC REPUBLIC · IONIAN UNIVERSITY 1984 · DEPARTMENT OF ENVIRONMENT IONIAN UNIVERSITY · Municipality of Zakynthos · ΕΠΙΜΕΛΗΤΗΡΙΟ ΖΑΚΥΝΘΟΥ ZAKYNTHOS CHAMBER OF COMMERCE

	Authors: Mario Fahim, Dionysia Varvarigou, Aliki Panagiotarou, Pantelis Barouchas, and Paris Kitsos • **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** *Authors: Nikolaos C. Psychalinos, Panos C. Papageorgiou, Theodosis A. Alexandridis, George C. Konstantopoulos, and Antonio T. Alexandridis* • **Agisilaos Kolliopoulos**, University of Patras, Greece: **Scenario-Based People-Process-Technology Mapping for Social Engineering Awareness** *Authors: Agisilaos Kolliopoulos, Dionysia Varvarigou, Kostas Lampropoulos, Spyros Denazis, and Paris Kitsos*	*Authors: Zainel Qader, Junaid Fouad Kareem, Elaf Mohammed Shakir, Lizan Ahmed Saleh, Hiba Hasan Sultan, Hiyam Ali Fadhil, and Belen Ali Saeed* • **Klodjan Xhexhi**, Architecture and Engineering Department, Polis University, 1051 Tirana, Albania: **Recycled Composite Panels for Sustainable Interior Architecture: Density, Water Absorption, and Capillary Action** *Authors: Klodjan Xhexhi, Blerim Nika, Ledian Bregasi, Ilda Rusi, Sonia Jojic, and Nikolla Vesho* • **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** *Authors: Isam Aameer Ibrahim, Ibtisam A. Aljazaery, Hussain Ali Mutar, Ibtihal R. N. ALRubeei, and Haider TH. Salim AlRikabi* • **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, Branch of Helias, Workshop Session 2 - Education & STEAM Track 2** **Chairs: M. Birba, E. Lagogianni, S. Gialpa** • **F. Spyropoulou: An Instructional Approach to the Pythagorean Theorem** • **T. Baltsavias: A Geometric Inequality Derived from the Distance Between Two Points in Any Triangle**
16:45-17:00	**Break**	

HELLENIC REPUBLIC · IONIAN UNIVERSITY 1984 ·

DEPARTMENT OF ENVIRONMENT
IONIAN UNIVERSITY

Municipality of Zakynthos

HELLENIC MATHEMATICAL SOCIETY · ΙΝΝΙΑΣ ΗΛΕΙΟΣ 2007 · HELIAS BRANCH

ΕΠΙΜΕΛΗΤΗΡΙΟ ΖΑΚΥΝΘΟΥ
ZAKYNTHOS CHAMBER OF COMMERCE

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, K. Sofianos, 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** *Authors: Vasileios Thomopoulos and Panagiotis Tzoudas* • **Georgios Kolliotsis**, University of Patras, Greece: **Experimental evaluation of inorganic LGSO: Ce scintillators for applications in Medical Imaging** *Authors: Georgios Kolliotsis, Nikolaos Potiriadis, Ioannis Roussakis, Despoina Sinapi, and Stratos David*	**HMS, Branch of Helias, Workshop Session 3 - Education & STEAM Track 3** **Next-Generation STEM Practices in Primary and Secondary Education** **Chairs: A. Gioka, P. Milesi, T. Baltsavias** • **K. Desiniotis: A multifactorial model for quantifying and evaluating learning performance in STEM environments** *Authors: O. Boltsi, K. Desiniotis, E. Kremesi* • **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** *Authors: M. Birba, G. Adamopoulou, I. Georgiou* • **A. Ntafogianni: Game-Based Learning and Interdisciplinarity: Foundations and Practical Application through the "Panepistimonas: The Science Quiz" Game in Junior High School** *Authors: A. Ntafogianni,* E. Kolatou
18:00-18:20	**Coffee Break**	
18:20-19:05	**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** *Authors: Despoina Sinapi, Ioannis Roussakis, Georgios Kolliotsis, Potiriadis Nikolaos, and Stratos David* • **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, Branch of Helias, 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**

	Authors: Ashwini Sapkal, Trupti Najan, Rachit Kumar, Ishu, Pranav and Devesh Saraswat • **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** *Authors: Ioannis Roussakis, Nikolaos Potiriadis, Georgios Kolliotsis, Despoina Sinapi, and Stratos David*	
19:05-19:15	**Break**	
19:15-19:30	**Smart Cities, Urban Environment, and Digital Applications 2** **Chairs: A. Kyritsis, V. Thomopoulos, G. Pylarinos** • **Zakynthos Chamber of Commerce: Augmented Reality APP Presentation**	
19:30-19:40	**Break**	
19:40-21:00	**Στρογγυλό Τραπέζι: Κυκλική Οικονομία (Panel Discussion: Circular Economy – in Greek) - Moderator: Georgia Kalamara** **D. Avgerinopoulou**, Chairman of the Special Standing Committee on Environmental Protection of the Parliament **D. Aktipis**, Member of the Special Standing Committee on Environmental Protection of the Parliament **N. Giakoumelos**, Deputy Mayor for Sanitation, Zakynthos Municipality **D. Panagiotaras**, President, Associate Professor, Department of Environment, Ionian University, Greece **A. Kyritsis**, Associate Professor, Department of Environment, Ionian University, Greece **D. Golemis**, Zakynthos Chamber of Commerce **A. Alexandridis**, Professor, Department of Electrical and Computer Engineering, University of Patras, Patras, Greece	
21:30	**Conference dinner – social event, Alektor Restaurant**	

HELLENIC REPUBLIC · IONIAN UNIVERSITY 1984 ·

DEPARTMENT OF ENVIRONMENT
IONIAN UNIVERSITY

Municipality of Zakynthos

HELLENIC MATHEMATICAL SOCIETY – HELIAS BRANCH – ΙΝΝΙΑΣ Ο ΗΛΕΙΟΣ 2007

ΕΠΙΜΕΛΗΤΗΡΙΟ ΖΑΚΥΝΘΟΥ
ZAKYNTHOS CHAMBER OF COMMERCE

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, Branch of Helias, 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** *Authors: A. Giannakopoulou, E. Varela*
12:00-12:15	**Break**
12:15-12:45	**HMS, Branch of Helias, Session 6** **Chairs: A. Papadopoulos, F. Oikonomou** • **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** *Authors: Evanthia Faliagka, Tanya Politi, Christiana Ioannou, Ioannis Tsampras, Natalie Temene, Vasos Vassiliou, Christos Antonopoulos, Nikos Voros, Spyros Denazis* • **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** *Authors: George R. Ivanov and Asen Dimov*

HELLENIC REPUBLIC · IONIAN UNIVERSITY 1984 · DEPARTMENT OF ENVIRONMENT IONIAN UNIVERSITY · Municipality of Zakynthos · HELLENIC MATHEMATICAL SOCIETY – HELIAS BRANCH – ΙΝΝΙΑΣ ΗΛΕΙΟΣ 2007 · ΕΠΙΜΕΛΗΤΗΡΙΟ ΖΑΚΥΝΘΟΥ ZAKYNTHOS CHAMBER OF COMMERCE

	• **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** *Authors: Ioannis Tsilikis, Christos Panagiotou, Konstantinos Antonopoulos, Michael Paraskevas, Vaggelis Kapoulas, Christos P. Antonopoulos, and Nikolaos Voros*
17:30-17:45	**Coffee break**
17:45-18:15	**Chairs: D. Panagiotaras, C. Antonopoulos, G. Pylarinos** • **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, 3rd place)** • **Best Poster** • **Best Presentation** **Closure**

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

Note: HMS, Branch of Helias sessions and panel discussions will be conducted in Greek

HELLENIC REPUBLIC · IONIAN UNIVERSITY 1984 ·

DEPARTMENT OF ENVIRONMENT
IONIAN UNIVERSITY

Municipality of Zakynthos

ΕΠΙΜΕΛΗΤΗΡΙΟ ΖΑΚΥΝΘΟΥ
ZAKYNTHOS CHAMBER OF COMMERCE