

Dear Authors and Participants,



We are delighted to announce that the technical program for EEITE' 2026 is available on our [website](#) and in this document!  
 Our program is filled with 7 Special sessions, 6 oral sessions, 3 poster sessions, and workshops or tutorials. At the end of this document please find important instructions and guidelines.

### IEEE EEITE 2026 CONFERENCE TIMETABLE - Schedule at glance

	WEDNESDAY 3rd JUNE	THURSDAY 4th JUNE	FRIDAY 5th JUNE
09:00:00	Conference Welcome / Registration		
10:20:00	OPENING CEREMONY		
10:40:00	PLENARY SESSION I - (Amphitheatre - Room 1) Prof. George Dimitrakopoulos, HUA, Greece - 'Shaping the future of electric connected autonomous and shared vehicles through innovative Electronic Components and Systems'		
11:00:00	PLENARY SESSION I - (Amphitheatre - Room 1) Dr. Maria Efstatidou - "From Design to Practice: Implementing the ALPER-EU Agile Programming Framework in School Environments" Institute of Educational Policy (Ministry of Education of Greece)		
11:20:00	PLENARY SESSION I - (Amphitheatre - Room 1) Elaine Boneilo - 'How to Introduce Robotics through LEGO Spike essentials' Directory of Digital Literacy & Transversal Skills (Ministry of Education of Malta)		
11:40:00	PLENARY SESSION I - (Amphitheatre - Room 1) Dr. Edward Duca - 'Transdisciplinary approaches and STEAM pedagogies for robotics educators (School of Education - University of Malta)'		
12:00:00	COFFEE BREAK		
12:20:00	ORALSESSION 4 (Room 7) SPECIALSESSION 9 (Amphitheatre - Room 1) ORALSESSION 1 (Room 6)	SPECIALSESSION 2 (Room 7) SPECIALSESSION 4 (Amphitheatre - Room 1) ORALSESSION 5 (Room 6)	ORALSESSION 6 (Room 7) SPECIALSESSION 6 (Amphitheatre - Room 1) SPECIALSESSION 1 (Room 6)
13:40:00	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
15:00:00	WORKSHOP SPECIALSESSION 7 (Amphitheatre - Room 1) ORALSESSION 1 (Room 6)	ORALSESSION 2 (Room 7) SPECIALSESSION 4 (Amphitheatre - Room 1) ORALSESSION 5 (Room 6)	ORALSESSION 6 (Room 7) SPECIALSESSION 6 (Amphitheatre - Room 1) SPECIALSESSION 1 (Room 6)
16:40:00	COFFEE BREAK		
17:00:00	ORALSESSION 3 (Room 7) SPECIALSESSION 7 (Amphitheatre - Room 1) ORALSESSION 1 (Room 6)		
18:30:00	WELCOME RECEPTION		
21:00:00	GALA DINNER		

## Poster Sessions



# ORAL Sessions

WEDNESDAY 3th June		
09:00	Conference Welcome / Registration Main Lobby	
10:20	OPENING CEREMONY (Amphitheatre - Main Lecture Room)	
10:40	PLENARY SESSION I - (Amphitheatre - Room 1) Prof. George Dimitrakopoulos, HUA, Greece - "Shaping the future of electric connected autonomous and shared vehicles through innovative Electronic Components and Systems"	
	PLENARY SESSION II - (Amphitheatre - Room 1) Dr. Maria Efstathiou - "From Design to Practice: Implementing the ALPER-EU Agile Programming Framework in School Environments" Institute of Educational Policy (Ministry of Education of Greece)	
	PLENARY SESSION III - (Amphitheatre - Room 1) Elaine Bonello - 'How to Introduce Robotics through LEGO Spike essentials' Directory of Digital Literacy & Transversal Skills (Ministry of Education of Malta)	
	PLENARY SESSION I - (Amphitheatre - Room 1) Dr. Edward Duca - 'Transdisciplinary approaches and STEAM pedagogies for robotics educators (School of Education – University of Malta)	
12:00	COFFEE BREAK	
	ROOM 7	ROOM 6
	Amphitheatre - Main Lecture Room	Amphitheatre - Main Lecture Room
	<i>SS-09: AI-Driven Orchestration and Safety Engineering for Mixed-Traffic CCAM Systems</i> Session Chair: Christos Ballis	<i>OS-01: Artificial Intelligence - Machine/ Deep Learning &amp; Applications</i> Session Chairs: Nikolas Capsalis, George Liodakis
12:40	"Orchestrating Heterogeneity: A Multi-Layer Architectural Framework for Mixed Traffic in the CHORUS CCAM Ecosystem" - Christos Ballis	"An ML-powered, digital DNA traceability platform: the high-end EVOO case" - Stelios Arhondakis
13:00	"Run-Time Monitoring Frameworks for Validation of Autonomous Vehicles: A Focused Review of Applications" - Alexander Fertig	"Para-QNet: Parallel Quantum Circuits for Scalable Edge AI in Plant Disease Diagnosis" - Ghanapriya Singh
13:20	"Comparative evaluation of Tree Based Ensemble Models for Short Term Traffic Forecasting" - Anastasia Kakouri	"Neural Network-Based Recognition of Impaired Polish Speech" - Rafal Gasz
13:40	LUNCH BREAK	PS - 01 (Main Lobby) P.01 - P.08
	<i>SS-07: AI-Driven Risk Assessment, Interoperability and Trusted Operations for Civil Security and Border Management</i> Session Chair: Mariza Konidi, Aslihan Kagnici	<i>OS-01: Artificial Intelligence - Machine/ Deep Learning &amp; Applications</i> Session Chairs: Nikolas Capsalis, George Liodakis
15:00	WORKSHOP by ROHDE SCHWARZ	"PRESERVE: A Multi-Layered HC-UAS Architecture for the Prevention and Management of Hostile Drone Swarm Threats in Public Spaces" - Emmanouil Daskalakis
15:20		"The TRACY Framework: A Law Enforcement Engine for Crime Resolution Utilizing Large Signaling Datasets" - Michaela Antonopoulou
15:40		"Uncovering Hidden Corruption Patterns Leveraging Data Analytics" - Nikolaos Maragkos
16:00		"AI-Based Information Risk Assessment for Civil Security: A Multilingual Fake News Detection Framework" - Alexandru Ciobanu
16:20		"Adaptive Disinformation Detection with User-Defined Trusted Corpus" - Georgios Pantelis
16:40	COFFEE BREAK	
	<i>OS-03: Plasma Technology, Functional Materials and Applications</i> Session Chairs: Ioannis Fitisilis	<i>SS-07: AI-Driven Risk Assessment, Interoperability and Trusted Operations for Civil Security and Border Management</i> Session Chair: Mariza Konidi, Aslihan Kagnici
	<i>OS-01: Artificial Intelligence - Machine/ Deep Learning &amp; Applications</i> Session Chairs: Nikolas Capsalis, George Liodakis	
17:00	"Laser-Driven Ion Acceleration from Optically Shaped Gaseous Targets Optimized for Magnetic Vortex Acceleration" - Ioannis Tazes	"A Human Centric Border Resource Management Framework with Predictive Optimization and Large Language Models" - Michalis Vourtzoumis
17:20	"Dynamic Optical Characterization of Acoustic Fields Inside Si Crystals, Towards the Design and Development of Tunable γ-ray Sources" - Emmanouil Kaniolakis Kaloudis	"A Multi-Modal AI Framework for Real-Time Queue Prediction, Management and Optimisation in Intelligent Border Control Systems" - Anargyros Baklezos
17:40	"Experimental study of neutron and deuteron emission from a miniature Plasma Focus" - Christos Karvounis	"Towards A Hybrid Graph-RAG and Policy Enforcement Architecture for Explainable Border Control Decision Support System" - Marco Paleari
18:00	"Rapid Evolutionary Construction of Boolean Functions using JIT-Optimized Genetic Algorithms" - Evangelos Lykakis	
18:20	"A Computational Study of Runaway Electron Effects on Graphite Plasma-Facing Components" - Antonios Kavroulakis	"SafeTravellers: Pilot Validation Campaigns, User Acceptance and Transferable Lessons for Next-Generation Border Management." - Paula Fernández Diaz
18:30	WELCOME RECEPTION	

EXHIBITION (Rohde Schwarz - DRS - YOTTAVOLT - VECTOR Tech.)

THURSDAY 4th June			
9:00	Conference Welcome / Registration Main Lobby		
	ROOM 7	Amphitheatre - Main Lecture Room	ROOM 6
	SS-02: Recent advancements in robotic perception, learning, interaction, communication, and control technologies Session Chair: Georgios Angelidis, Aqaelos Psiris	SS-04: Biosignals and computer vision analysis methods for biomedical applications Session Chair: Giorgos Giannakakis	SS-05: Decision Intelligence and Decision Support Systems: Models, Analytics, and Human-Centered Perspectives Session Chair: Ass. Prof. Georgia Dede
10:20	"A High-Level Survey of Optical Remote Sensing" - Georgios Papadopoulos	"Multimodal Needs Analysis of Student Engagement in Educational Robotics Programming Classes" - David Akoda	"Evaluation and Taxonomy Framework of Multi-Cloud pipelines: An AI Case Study with CRITIC" - Evangelia Filiopoulou
10:40	"Pervasive Learning over Supervised Hybrid Remote Laboratories for IoT and Microcontroller Education" - Manos Garefalakis	"Efficient Emotion-Aware Iconic Gesture Prediction for Robot Co-Speech" - Giorgos Giannakakis	"Towards Designing Circular Systemic Solutions: A User-Centric Approach" - Emmanouil Rompogiannakis
11:00	"FR-GESTURE: An RGBD Dataset For Gesture-based Human-Robot Interaction For Enhanced Real-time Disaster Response" - Aggelos Psiris	"Differentiating Physical Exertion from Psychological Stress in Micro-Mobility Using Attention-Based Multi-Task TinyML" - José Paulo Oliveira Santos	"An AI-Enabled Decision Support System for Predictive QoS in Vehicular Networks" - Eirini Liotou
11:20	"Open-Vocabulary vs Supervised Learning Methods for Post-Disaster Visual Scene Understanding" - Georgios Angelidis	"Precision in Progress: Advancing Medical Data Insights with Dynamic DBSCAN Clustering and Weighted Features" - Abir SMIT	"TerraTwin: A Digital Twin-based Decision Intelligence Framework for Climate-Biodiversity Interactions" - Konstantina Papachristopoulou
11:40	"Interactive Augmented Reality-enabled Outdoor Scene Visualization For Enhanced Real-time Disaster Response" - Georgios Angelidis	"1BT: One-Block Transformer for EEG-Based Cognitive Workload Assessment" - Giorgos Giannakakis	
12:00	COFFEE BREAK		
	SS-02: Recent advancements in robotic perception, learning, interaction, communication, and control technologies Session Chair: Georgios Angelidis, Aqaelos Psiris	SS-04: Biosignals and computer vision analysis methods for biomedical applications Session Chair: Giorgos Giannakakis	OS-05: Circuits and Systems Session Chair: Maria Zakythinaki
12:20	"Rapidly Deployable Communication Framework for Robotic Disaster Response" - Emmanouil Rompogiannakis	"AI-enabled Real-Time Face Emotion Recognition on the Edge for THB Detection" - Alexandros Rammos	"Pythagoras, $\{\sqrt{\{2\}}\}$ , 2D Continued Fraction Digital Filter: State-Space and Imaging Approach" - George Antoniou
12:40	Large-scale Photorealistic Outdoor 3D Scene Reconstruction from UAV Imagery Using Gaussian Splatting Techniques" - Georgios Angelidis	"A Lightweight Transformer for Pain Recognition from Brain Activity" - Giorgos Giannakakis	"Extension of Surge Immunity Characterization for Road and Street LED Luminaires through Parametric Variation of Standard Test Conditions" - Panagiotis K. Papastamatis
13:00	"Safe Navigation and Formation Control for UAV Swarms under Wind Disturbances" - Alina Eqtami	"Classification of Emotional States via EEG Chronnectomics in Immersive Projection Environments" - Christina Chatzianagnostou	"Blockchain-Enabled Secure Logging for Fiscal Electronic Mechanisms: Evaluation of the Greek "eSEND" and myDATA Tax Systems." - Panagiotis Mavridis
13:20	"A Conceptual Framework for Adaptive Coordination of Hybrid Teams in Emergency Scenario" - Gloria Beraldo	"Enhancing Brain Function through Neurofeedback: Rationale, Techniques, and Key Findings" - Charalampos Papageorgiou	"Signal detection and pattern analysis in rotating sensor systems" - Antonios M. Maragoudakis
13:40	LUNCH BREAK		PS - 02 (Main Lobby) P.09 - P.15
	OS-02: Robotics and Applications Session Chair: Alina Eqtami	SS-04: Biosignals and computer vision analysis methods for biomedical applications Session Chair: Giorgos Giannakakis	OS-05: Circuits and Systems Session Chair: Maria Zakythinaki
15:00	"Design of a Fixed-Wing UAV Platform for Safety-Critical Autonomous Navigation Research" - Alina Eqtami	"Toward Brain-Olfaction Experiments in Psychophysiology: Theoretical Foundations, Applications, and Preliminary Results" - Charalampos Papageorgiou	"Genetic algorithm chromosome encoding for coverage optimization" - Ioannis Barbounakis
15:20	"Modeling and Design of a Modular Overactuated Quadrotor with Full Thrust Vectoring" - Alen Šćuric	"Evaluating Glottal Flow Parametrization for Parkinson's Disease Detection from Speech" - George Kafentzis	"Privacy-Preserving Edge-IoT Architecture for Physiology-Aware Smart Homes: Design and Implementation" - José Paulo Oliveira Santos
15:40	"A model based controller for tendon-driven robotic fingers" - John Fasoulas		"KBest Platform: An Integrated Knowledge Repository for Effective Experiment Design, Data Collection and Analysis" - Konstantina Pantelidou
16:00	"Design and Force Characterisation of a High-Transparency 2-DoF Haptic Pantograph" - Michael Sfakiotakis		"Energy Assessment of LLMs on Neural Processing Units and Hybrid Platforms" - Christoforos Kachris
16:20	"Robotics in Industry: A short review of workforce implications and ethical challenges" - Anastasia Ntagiata		"Sensitivity analysis of triangulated coverage in range-free sensor networks" - Maria Zakythinaki
16:40	COFFEE BREAK		
17:00			"Low-Cost CSRR Microwave Sensor for Dielectric Characterization of Liquid Samples" - Kamel Haddadi
17:20			
21:00	GALA Dinner		

EXHIBITION (Rohde Schwarz - DRYS - YOTTA VOLT - VECTOR Tech.)

FRIDAY 5th June			
COFFEE BREAK Main Lobby			
ROOM 7	Amphitheatre - Main Lecture Room	ROOM 6	
9:00	<i>OS-06: 5G &amp; 6G Wireless Networks Microwave, Millimeter wave and Terahertz Communications, Smart Antennas</i> <i>Session Chair: Ioannis Vardiambasis</i>	<i>SS-06: Enhancing Cultural Narrative and Accessibility through VR/AR</i> <i>Session Chair: Sorin Herban &amp; Massimiliano Pepe</i>	<i>SS-01: The impact of AI in Higher Education Control Systems</i> <i>Session Chair: George Kakavelakis</i>
10:20	"A Machine Learning Framework for 5G Path Loss Prediction Using Real-World Measurements" - Achilles Theocharopoulos	"From UAV Reality Capture to Functional Digital Twins: Navigating Challenges in the 3D Reconstruction of Chania's Venetian Fortifications" - George Volanis	"Building using AI, your Job Search Process" - George Kakavelakis
10:40	"Metaheuristic Synthesis of a Dual-Band 2.4 GHz/5G NR n78 Pixelated Antenna for IoT Applications" - Dimitrios Rigas-Papakonstantinou	"Marker-Based Augmented Reality for Cultural Heritage: A Mobile Implementation for the Interactive Visualization of Sarmizegetusa Relics" - Ioan Sorin Herban	"A Framework for Pattern-Based Pedagogical Control of Large Language Models in Higher Education" - Nikos Pappas
11:00	"Oblique Plane-wave Scattering by Circular Cylindrical Metasurfaces of Azimuthally Inhomogeneous Surface Admittance" - Grigorios Zouros	"From 3D Scans to Virtual Reality: A Workflow and VR Application for Cultural Heritage at Ulpia Traiana Sarmizegetusa" - Ioan Sorin Herban	"Enhancing Serious Games with Generative AI: From Words to Worlds on the Path to Vocabulary and Literacy Mastery" - Ilias Logothetis
11:20	"Measurement-Based LOS/NLOS Identification for Urban UAV-to-Ground Channels Employing Feature-Optimized Machine Learning" - Konstantinos Psychogios	"Low - Cost Thermographic Photogrammetry for Buildings 3D Reconstruction" - Ioan Sorin Herban	"AI Tools for Teaching Purposes" - George Kakavelakis
11:40	"Chaotic-Outline X-Band Patch Antenna Bandwidth Optimization via Metaheuristic Algorithms" - Konstantinos Spyridakis	"An Integrated Workflow Based On Slam, Uav Photogrammetry, And Matterport For The Documentation And Restoration Of Historic Buildings: The Case Of Anversa Degli Abruzzi (Italy)" - Ahmed Kamal Hamed Dewedar	"From Agile Process to Adaptive System: A Systems Thinking Framework for University Laboratories Supported by AI Observability" - Georgios Liodakis
12:00	COFFEE BREAK		
	<i>OS-06: 5G &amp; 6G Wireless Networks Microwave, Millimeter wave and Terahertz Communications, Smart Antennas</i> <i>Session Chair: Ioannis Vardiambasis</i>		<i>SS-01: The impact of AI in Higher Education Control Systems</i> <i>Session Chair: George Kakavelakis</i>
12:20	"Sat-Link: An Open-Source ITU-R-Compliant Satellite Link-Budget Simulator" - Nikolaos Kalaitzakis		"Secondary Education Teachers' Training in Science and Electronics: A Comparison between Greece and England" - Lambros Frantzeskakis
12:40	"Refinement of the extrusion printing process through material and deposition control toward the fabrication of coplanar waveguides" - Nowab Reza MD Ashif		
13:00	"Graph Transformer-Based Network Digital Twins for High-Fidelity 5G/6G Traffic Replication and Synthesis" - Athina Vekraki		
13:20	"A National Framework for Digital Broadcasting Coverage Optimization and Spectrum Coordination Using Supplementary Transmission Sites" - Nikolas Kapsalis		
13:40	LUNCH BREAK		PS - 03 (Main Lobby) P.16 - P.20
15:00			
15:20			
15:40			
16:00			
16:20			
16:40	COFFEE BREAK		
17:00			
17:20			

EXHIBITION (Rohde Schwarz - DRS - YOTTAVOLT - VECTOR Tech.)

## Instructions for Authors

Please take a look and **indicate the corresponding presenter** in case it is not the appropriate one in the program, and please **provide a short bio for each presenter in the submission portal under the section of your paper and on the tab for the extra notes!!!**

It is our great pleasure to welcome you as a presenter at EEITE 2026 in Chania - Crete. To ensure a smooth course during your session, either oral or poster, we kindly ask you to consider the following instructions:

### Important Information for Oral Presentations

In preparing your presentation, remember that it may be viewed from the back of a room seating around 50 people. Font sizes between 18 pt and 24 pt are strongly preferred. If you can't read a version of a slide printed on a standard sheet of paper from a distance of two meters, people are probably going to have trouble reading your projected slide. Please present the same materials as reported in your paper submission.

The overall time slot for each presentation is **20 minutes**. Plan your **speech** for a duration of **15 minutes** to allow time for questions and discussion.

Session chairs have been instructed to rigorously enforce the schedule, i.e., to strictly obey the length of a presentation and the announced starting times. We kindly ask you for your understanding and for your cooperation in keeping the schedule.

**Be at the room of your session 10 minutes before session starts**, so that you can meet your session chairs and the other speakers in advance.

A video projector and a PC with Windows operating system will be available in all session rooms. The screen format is 16 x 9.

Please bring your presentations on a USB memory stick in MS PowerPoint or Adobe PDF format to **EEITE 2026** and deliver it in the session room at the conference venue **NO LATER** than 10 minutes prior to your session! You can of course bring it earlier, in one of the coffee/ lunch breaks.

When saving a PowerPoint presentation, please be sure to embed all fonts (Click on "File", then "Save As", Click on "Options", In the options dialog box, Click on "Save" and Check the "Embed fonts in the file").

When creating a PDF version of a presentation, please be sure to embed all fonts.

We recommend you bring at least 2 copies of your presentation to the conference in case there is a problem with one of them.

### Important Information for Poster Presentations

When preparing the poster, presenters should have in mind the objective of capturing the interest of attendees to the work that is being presented. The quality of the presentation stimulates the attention

from the audience and improves the overall satisfaction of the community attending the conference. Use an appropriate font size allowing posters to be readable by delegates 1.5 m away. Please present the same materials as reported in your paper submission.

The poster message should be clear and understandable without oral explanation. Please, place the title of your paper and author's names prominently at the top of the poster to allow viewers to easily identify your paper.

Further, we would like to call the attention of poster presenters to the following items:

Each poster board is marked with the poster ID-number.

Your poster number has been sent to you in the presentation schedule and can also be found in the detailed program.

Poster boards will be marked with poster ID-numbers.

**Authors are required to use only the boards corresponding to their posters.**

**Poster presenters must hang up their poster on the day of their presentation from 12:30 to 13:30.**

**The authors will need to stay personally just during their poster session from 13.40 to 15.00 and to remove their posters from the boards from 15:30 to 17:00.** Posters left on the boards after the poster sessions will not be returned by the organizers.

Posters should be fixed to the poster board using removable stripes which will be provided on site.

The display area has the following obligatory maximum dimensions: 180 cm high and 90 cm wide (portrait only).

**We recommend producing a poster in A0 size (approx. 118.9 cm high x 84.1 cm wide).**

**IMPORTANT:**

Please note that **a registration of at least one author for each paper, accompanied by full payment of the registration fee, is requested by May 25th, 2026.** If the registration and payment are not received by that date, your contribution will be removed from both the Program and the IEEE Proceedings.

Please also complete the **IEEE copyright form**, which is located on the left panel when you click on the details of your paper.

Please note that IEEE reserves the right to exclude a paper from distribution after the conference (e.g., removal from IEEE Xplore) if the paper is not presented either orally or as a poster at the conference from June 03-05, 2026, in Chania, Crete (Greece).

We will be holding our **farewell dinner on Thursday, June 4th, 2026.** We would greatly appreciate it if you could take a few moments to complete the following questionnaire:

[https://docs.google.com/forms/d/e/1FAIpQLSfuKVHen7U4Eivi7LXFMclfdwEvZ3\\_LVAzY\\_QTHshPGeYI5HA/viewform?usp=dialog](https://docs.google.com/forms/d/e/1FAIpQLSfuKVHen7U4Eivi7LXFMclfdwEvZ3_LVAzY_QTHshPGeYI5HA/viewform?usp=dialog)

*Looking forward to meeting you all in EEITE 2026 at Chania.*

*Sincerely,*

*Christos Nikolopoulos*  
*Chair of the EEITE 2026 Conference Organizing Committee*