







Dear partners of the Faculty of Electronics, Telecommunications and Information Technologies,

We are thrilled to announce that our faculty is organizing the upcoming <u>16th International Symposium on Electronics and</u> <u>Telecommunications (ISETC'24)</u>, scheduled to take place on November 7-8, in Timișoara, Romania, at the UPT Conference Center in the building of the <u>Central Politehnica University Library</u>.

This event will bring together scientific experts, teaching & research personnel, guests from international universities, students, engineers, managers, decision makers, and enthusiasts actively engaged in the following <u>technical fields</u>:

Artificial Intelligence and	Instrumentation and	Open Education and Emerging	Power Electronics
Computer Vision	Measurement	Technologies	
Deep Learning, Reinforced	Instrumentation, sensors,	Open Education: Open Access, Open	Power Converters, Topologies
Learning, Machine Learning;	measurement techniques and	Scholars, Open Educators, Open	and Design;
Fuzzy Systems, Evolutionary	devices:	Learning, Open Educational Resources	Modern Control in Power
Computing;	 Industry 4.0 applications for 	(OERs), Open Science, Open Data;	Electronics:
Computer Vision;	smart manufacturing;	MOOCs and Flipped Classrooms,	Renewable Energy Power
Medical Imaging;	Electromagnetic Compatibility,	Blended Learning;	Systems;
Biometrics, Face Gesture and	Microwaves, Antennas and	OERs and MOOCs for Industry	Power Quality;
Body;	Propagation;	Revolution 4.0:	Modelling and Simulation in
Computational Photography;	Biomedical Applications;	AR/VR and Blockchain Technologies in	Power Electronics;
Natural Language Processing.	Robotic systems in enhanced	Education;	Grids, Smart Grids;
	perception, autonomous and	 Internet of Things Education. 	Power Converters for Electric
	intelligent integrations.		Vehicles.
Signal Processing	Telecommunications	Microelectronics	Industry Workshop
Adaptive and Non-linear Signal	Security;	 Semiconductor Technologies; 	Workshop exhibition & technical
Processing;	 Antenna and Propagation; 	 Analog, Mixed and Digital ICs; 	presentations of innovations,
 Statistical Signal Processing; 	 Network and Service 	VLSI Technologies;	trends and applicative research
 Signal analysis, Transform and 	Management;	 FPGA and Applications; 	solutions coming from important
Reconstruction;	Telecom Software, Network	 Integrated Circuits Fabrication; 	industry actors.
 Speech and Audio Signal 	Virtualization, and Software	 Photonics and Optoelectronics; 	
Processing;	Defined Networks;	 Electronic packaging. 	Communication Technologies &
 RADAR, Video and 3D Signal 	Data Science and Artificial		IoT;
Processing;	Intelligence for Communications;		 Automotive Trends;
 Model-Based Deep Learning 	 Internet of Things and Sensor 		 Smart Manufacturing;
applied in Signal processing for	Networks;		• E-Health.
telecommunications.	 3G, 4G and 5G Communication 		
	Networks.		

This event presents a unique opportunity for your organization to enhance its visibility and engage with our audience, as well as networking with other companies.

Industry 4.0 Workshop 2024 participants:



Key Highlights:

- Keynote presentations delivered by scientists, technical experts and technical leaders;
- Live technology presentations/demos and technical discussions;
- Networking opportunities, scientific contribution ceremonies and gala dinner.









ISETC'24 Agenda

	08:00 - REGISTRATION				
	09:00 – ISETC'24 Opening ceremony & Technical/Scientific presentations (Auditorium Hall) 09:30 – Sabin Totorean - Nokia - Digital acceleration toward the quantum era 10:00 – Jeremy McClain - Continental - From ADAS to Full Autonomy 10:30 – Pavol Bauer - University of Technology, Delft, the Netherlands - Energy Hubs – Basic Building Block for Energy Transition				
Day 1, Thursday, 07.11.2024	14:00 – 17:30 IPCEI Project Workshop - UPT, Continental & NXP (Auditorium Hall)	14:00 – 18:30 ISETC'24 Scientific Tracks (K1, K2, Multifunctional, DEL, A116 Rooms) 14:00 – 16:00 First Slot Artificial Intelligence and Computer Vision (Multifunctional Room) - Opening technical presentations from Eviden & Magna Instrumentation and Measurement (K1 Room) - Opening technical presentations from Flex & Hamilton Telecommunications (K2 Room) - Opening technical presentations from Deltatel & Lasting Signal Processing (A116 Room) Open Education, Open Science and Emerging Technologies (DEL Room 401) 16:30 – 18:30 Second Slot Artificial Intelligence and Computer Vision (Multifunctional Room) Instrumentation and Measurement (K1 Room) Telecommunications (K2 Room) Signal Processing (A116 Room)	10:00 – 16:00 – Technical Exhibition & I4.0 Workshop (Halls of the Library Building) Opened to all interested students, conference participants, guests etc. Exhibitors: Nokia, Continental, Flex, Hamilton, Magna, Forvia-Hella, Lasting, Schaeffler, Huf, Eviden & e-Learning Department UPT		
	19:00 - Gala Dinner (CP2, Bd. Mihai Eminescu nr.11)				
Day 2, Friday, 08.11.2024	13:30 - Closing ceremony (Auditorium Ha	09:00 – 13:30 ISETC'24 Scientific Tracks (K1, K2, Auditorium, DEL, A116 Rooms) 09:00 – 11:00 First Slot Artificial Intelligence and Computer Vision (DEL Room 401) Instrumentation and Measurement (Auditorium Hall) Telecommunications (A116 Room) Microelectronics (K2 Room) Power Electronics (K1 Room) - Opening technical presentation from Schaeffler-Vitesco 11:30 – 13:30 Second Slot Artificial Intelligence and Computer Vision (DEL Room 401) Microelectronics (K2 Room) Power Electronics (K2 Room) Power Electronics (K1 Room) Microelectronics (K1 Room)	10:00 – 16:00 – Technical Exhibition & I4.0 Workshop (Halls of the Library Building) Opened to all interested students, conference participants, guests etc. Exhibitors: Nokia, Continental, Flex, Hamilton, Magna, Forvia-Hella, Lasting, Schaeffler, Huf, Eviden & e-Learning Department UPT		

Technical presentations from our industry partners:

Mr. Dragos Munteanu, HAMILTON, Advanced Stirring and Pipetting Techniques in Bioplastics Research

Mr. Marin Mihai, FLEX, Intelligent SMT Line: Automation and AV Integration

Mr. Mihai Nohai, DELTATEL, Telecom specialist - from 0 to performance

Mr. Ionel Petrut, LASTING, 5G Non-Terrestrial Networks: Opportunities and Challenges for the Future of Connectivity

Mr. Dragos Ionescu, EVIDEN, Quality Inspector - End-to-end Quality Control with AI

Mr. Alexandru Arion, MAGNA, Thermal Vision in Automotive

Mr. Radu Bunea, SCHAEFFLER-VITESCO, Electrified Future: New Vehicle Electric Networks

We are looking forward to the opportunity to welcome you for insightful discussions, innovative presentations, and valuable networking opportunities!

Prof.Dr.Eng.Habil. Cătălin CĂLEANU ISETC'24 General Chair Mail: <u>catalin.caleanu@upt.ro</u>