



The 21st IEEE Conference on Industrial Electronics and Applications (ICIEA 2026)

2 - 6 August 2026 | University of Catania, Italy

PRELIMINARY PROGRAM OVERVIEW

DAY 0: 2 AUGUST 2026, SUNDAY									
17:00	19:00	Registration @ Palazzo Scammacca							
18:00	20:00	Welcome Reception @ Palazzo Scammacca							
Keynote Room		Room 1	Room 2	Room 3	Room 4	Room 5	Room 6		
DAY 1: 3 AUGUST 2026, MONDAY									
07:30	16:00	Registration							
08:30	09:00	Opening Ceremony							
09:00	09:45	Keynote 1: AI in Industrial Systems: Lessons from the Past, Paths to Tomorrow Prof. Milos Manic, Virginia Commonwealth University							
09:45	10:30	Keynote 2: Embodied Intelligence and Application — New Paradigm of Intelligent Transportation Vehicles Prof. Shaoping Wang, Beihang University							
10:30	10:50	Tea Break							
10:50	11:35	Keynote 3: Control Frameworks for Energy Trading and Sharing in Smart Grids Prof. Mariagrazia Dotoli, Politecnico di Bari							
11:35	12:20	DL1: Short-distance Communication in Constrained Devices for IoT Dr. Antonio Luque, University of Seville	Industry Talk						
12:20	13:30	Lunch							
13:30	14:15	DL 2: Neuromusculoskeletal Motion Control for Humanoid Robots Prof. Binrui Wang, China Jiliang University	MoC1: Best Paper Award	MoC2: Oral Session Artificial Intelligence (1)	MoC3: Special Session SS41: Advanced Electronic Components, Monitoring and Control Systems and Efficient Communication Solutions For Robust and Flexible Distributed Renewable Energy Systems	MoC4: Oral Session Control and Systems (1)	MoC5: Special Session SS04: Future Robotics Technologies and Applications (FRTA) (1)	MoC6: Special Session SS11: Underwater Imaging, Inspection, 3D Modelling and Digital Twin for Engineering and Marine Applications	
14:15	15:00	DL 3: Diagnostics and Prognostics of Power Electronics Wenping Cao, Anhui University							
15:00	15:30	Tea Break							
15:30	16:15	DL 4: Advanced Fully-through Railway Traction Power Supply System and Control Prof. Xiaoping He, Southwest Jiaotong University	MoD1: Best Paper Award	MoD2: Oral Session Artificial Intelligence (2)	MoD3: Oral Session Power Electronics (1)	MoD4: Oral Session Control and Systems (2)	MoD5: Special Session SS04: Future Robotics Technologies and Applications (FRTA) (2)	MoD6: Special Session SS12: Advanced Power Electronics for Hydrogen Systems and Microgrid Integration	
16:15	17:00	DL 5: Beyond 99% Efficiency: Soft-Switched Multilevel Converters Dr. Yi Tang, Nanyang Technological University							
DAY 2: 4 AUGUST 2026, TUESDAY									
		Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Poster Area
09:00	10:30		TuA1: Oral Session Energy and Environment (1)	TuA2: Oral Session Artificial Intelligence (3)	TuA3: Special Session SS43: Spiking Neural Networks: Sensing, Processing and Control Perspectives	TuA4: Special Session SS34: Fault Diagnosis and Reliability Assessment (1)	TuA5: Special Session SS04: Future Robotics Technologies and Applications (FRTA)	TuA6: Special Session SS29: Advanced Control and Optimization of Power Electronics-Dominated Modern Power Systems (1)	TuAP: Poster Session 1
10:30	10:45	Tea Break							
10:45	12:15		TuB1: Oral Session Energy and Environment (2)	TuB2: Special Session SS01: Computer Vision and Image Processing for Engineering and Biomedical Applications	TuB3: Oral Session Power Electronics (2)	TuB4: Special Session SS34: Fault Diagnosis and Reliability Assessment (2)	TuB5: Special Session SS36: System Design and Simulation (1)	TuB6: Special Session SS29: Advanced Control and Optimization of Power Electronics-Dominated Modern Power Systems (2)	WIE Session TuBP: Poster Session 2
12:15	13:15	Lunch							
13:15	14:45		TuC1: Oral Session Industrial Informatics (1)	TuC2: Special Session SS02: AI Based Inspection and Tracking for Manufacture, Biomedical and Marine Engineering (1)	TuC3: Oral Session Power Electronics (3)	TuC4: Special Session SS35: Signal Analysis and Intelligent Modeling (1)	TuC5: Special Session SS36: System Design and Simulation (2)	TuC6: Special Session SS38: Robotics and Autonomous Systems (1)	TuCP: Poster Session 3
14:45	15:00	Tea Break							
15:00	16:30		TuD1: Oral Session Industrial Informatics (2)	TuD2: Special Session SS02: AI Based Inspection and Tracking for Manufacture, Biomedical and Marine Engineering (2)	TuD3: Oral Session Power Electronics (4)	TuD4: Special Session SS35: Signal Analysis and Intelligent Modeling (2)	TuD5: Special Session SS03: Human-Machine Interaction and Intelligent Wearable Electronics for Industrial and Healthcare Applications	TuD6: Special Session SS38: Robotics and Autonomous Systems (2)	TuDP: Poster Session 4
18:30	21:30	Gala Dinner @ Four Points by Sheraton Catania Hotel & Conference Center							
DAY 3: 5 AUGUST 2026, WEDNESDAY									
		Room 1	Room 2	Room 3	Room 4	Room 5	Room 6		
09:00	10:30		WeA1: Oral Session Robotics	WeA2: Special Session SS20: Reliable Control and Robotics for Maritime Operations	WeA3: Oral Session Power Electronics (5)	WeA4: Special Session SS06: Wireless Sensing for Industrial Monitoring	WeA5: Special Session SS07: Artificial Intelligence for Smart Power and Energy Conversion	WeA6: Special Session SS10: Flexible Power Converters and Control Strategies for the Distribution Grid	
10:30	10:45	Tea Break							
10:45	12:15		WeB1: Oral Session Signal and Information Processing	WeB2: Special Session SS15: Perception, Planning and Control for Intelligent Robotics	WeB3: Oral Session Power Electronics (6)	WeB4: Special Session SS16: Stability Analysis and Intelligent Control of Power Electronics Dominated Power Systems	WeB5: Special Session SS17: Distributed Control, Learning and Applications in Multi-Agent Systems	WeB6: Special Session SS37: System Control and Optimization	
12:15	13:15	Lunch							
13:15	14:45		WeC1: Special Session SS05: Embodied Intelligence in Human-Computer Interaction (E-HCI) (1)	WeC2: Special Session SS22: Intelligent Control and Embedded Systems	WeC3: Special Session SS23: Grid-Forming Power Converters for Resilient Low-Inertia Power Systems	WeC4: Special Session SS24: Control, Optimization and Applications of Microgrids	WeC5: Special Session SS25: Novel Developments and Advanced Technologies of Intelligent Robotics in Complex Application Scenarios	WeC6: Special Session SS27: Advanced Technologies for Integrated Energy Systems: Intelligent Optimization, Operation and Control	
14:45	15:00	Tea Break							
15:00	16:30		WeD1: Special Session SS05: Embodied Intelligence in Human-Computer Interaction (E-HCI) (2)	WeD2: Special Session SS28: Intelligent Measurement, Diagnosis and Control	WeD3: Special Session SS31: Advanced Motor Control, Fault Diagnosis, Fault-Tolerant Control and their Applications	WeD4: Special Session SS32: Novel DFACTS Devices and Power Quality Treatment Technologies	WeD5: Special Session SS33: Power Conversion Theory and Applications for DC Microgrids and Distribution Systems	WeD6: Special Session SS39: State Monitoring and Optimization	
DAY 4: 6 AUGUST 2026, THURSDAY									
09:00	12:00	Workshops							
12:00	13:00	Lunch							
13:00	16:00	Workshops							