









# 28th International Conference on Mechatronics Technology (ICMT 2025)

November 12<sup>nd</sup> - 15<sup>th</sup>, 2025

HCMC University of Technology and Education, Ho Chi Minh City, Vietnam

# CALL FOR PAPERS

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Vietnam: Quoc Thanh Truong, Pham Huy

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Co-chairs: Van-Phong Vu, Tran Duc Thien

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### **Technical Sponsors**

**IEEE IES** 

**Financial Sponsors HCMUTE** 

Industrial sponsors

**Additional Information** 

# Visa applications: https://evisa.gov.vn

A list of hotels in Ho Chi Minh City will be published on the conference website.

## Venue

HCMC University of Technology and Education (HCMUTE), Vietnam

Address: 01 Vo Van Ngan street, Linh Chieu

### Contact

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### SCOPE OF THE CONFERENCE

The 28th International Conference on Mechatronics Technology (ICMT 2025) is a premier global forum for researchers, engineers, and industry professionals to exchange knowledge and advancements in the field of mechatronics. ICMT 2025 continues its long-standing tradition of fostering collaboration and innovation, bringing together experts from academia and industry to explore cutting-edge technologies and applications. The conference features keynote speakers and oral presentations, covering a diverse range of topics within

The International Conference on Mechatronics Technology (ICMT) is an annual international conference that has been successfully organized over 27 years since its establishment in 1996 in Santa Clara, USA. Hosted in various countries across Asia, Europe, and North America, the conference has built a strong global reputation for high-quality technical sessions, keynote speeches by distinguished experts, and industry-academia partnerships. As ICMT continues to grow, it remains dedicated to driving innovation, bridging research with real-world applications, and shaping the future of mechatronics technology. The 28th International Conference on Mechatronics Technology (ICMT 2025) will uphold this tradition, providing a dynamic forum for groundbreaking research and global networking.

### **TECHNICAL SESSIONS**

The topics of interest include (but are not limited to) the followings:

#### (1) Advanced Mechatronics Devices, Sensing and Control, and Control Systems

Robotics, Robot Factory, Mobile Robots, Motion control, Intelligent Mechanism, Parallel Mechanisms in Machine Tools, Man-Machine Interfaces, Sensors, Computer Vision and Recognition, Automated Navigation, Modeling, Tele-operation, Intelligent and Advanced Control, Adaptive Control, Artificial Intelligence, Precision Control

#### (2) Artificial Intelligence and Machine Learning in Mechatronics Al-driven mechatronic systems, Machine learning for predictive maintenance, Deep learning

applications in robotics and automation (3) Smart Actuators and Materials Actuators using Functional Fluid, SMA Actuators, Piezo-Electric Actuators, Electro-Static Actuators,

Magneto-Strictive Actuators, Smart Materials and Structures: Ionic Polymer-Metal Composites, Dielectric ElectroActive Polymer

#### (4) MEMS/NEMS and Micro/Nano-Manufacturing Precision Mechatronics, Micro/Nano-Electro Mechanical Systems, Opto-Mechatronics, Ultra-High

Precision Machining, Focus Ion Beam Manufacturing (5) Precision Measuring Technology

### Dimensional Measurement, Micro/Nano Measurement, Ultra High Precision Positioning, Optical and

Laser Technology, Scanning Probe Microscopy Technology, Measurement for Extreme Environments, Precision Instrumentation, Metrology (6) Production Systems

Automation Science and Technology, Intelligent Machine Tools, Industry 4.0 enabling technologies, Flexible Manufacturing Systems, Agile Manufacturing, Production Planning and Control, Fault Monitoring & Diagnosis, e-Maintenance, e-Manufacturing, Rapid Prototyping, Remote Manufacturing with Internet

## (7) Sustainable Transport and Energy Systems

Automotive Hybridization and Electrification, Vehicle Lightweight Materials and Structures, High Power Energy Storage Systems, Advanced Propulsion and Energy Saving Technologies, System Modelling and Real-Time Estimation, Energy Management Strategies and Optimization, Conditional Monitoring **Systems** 

### (8) Mechatronics as an Enabler for Innovative and Intelligent Transportation Systems

Telematics, Big Data Mining, Deep Learning, Smart, Connected and Autonomous Vehicles

# (9) Renewable Energy and Smart Grid

Sustainable Energy Resources, Energy Conversion Devices, Control Technologies, Energy Generation

# (10) Bioengineering and Mechatronics Applications in Life Sciences

Biosensors, Biochip Manipulation, Medical equipment, Human-Friendly Mechatronics, Human Adaptive Mechatronics, Life Cycle Design, Recycle Technology, Ecological Design and Production

## (11) Information and Networking

Network-Based Control Systems, Real-Time Systems, Embedded Systems, Self-Configuring Wireless Sensor Networks

# (12) Human Resource Development and Education on Mechatronics Technology

Mechatronics education, virtual reality applications, and policy strategies.

# (13) Internet in Industry 4.0

Internet of Things, Internet based Manufacturing, AI, Super Smart Society (14) Composite and Polymer Materials

Advanced Composite for smart devices, polymer for light structures in mechatronic and automation systems, smart integration of polymers in actuators, sensors and manufacturing technologies

# PAPER SUBMISSION

All submissions must be in English. Submitted papers must be original and not published elsewhere or intended to be published during the review period. The overall similarity index and the single source similarity index should not exceed 30% and 10%, respectively. Papers are to be submitted electronically in PDF format em (Link to

### CONFERENCE PUBLICATION

The accepted and presented full papers will be submitted for publication in IEEE Xplore. Presentation-only papers will not be included in the proceedings of ICTM 2025.

## **IMPORTANT DATES**

Proposal for special session 30 April 2025 07 May 2025 Special session acceptance notification 01 June, 2025 Abstract submission deadline Abstract acceptance notification 30 June, 2025 Full paper submission deadline 30 July, 2025 Reviewer's feedback deadline 15 September, 2025 22 September, 2025 Final paper submission deadline Registration & payment deadline 15 October, 2025 Letter of invitation delivery 20 October, 2025