

SECOND INTERNATIONAL VIRTUAL CONFERENCE
ON

**INTELLIGENT ROBOTICS,
MECHATRONICS AND AUTOMATION
SYSTEMS (IRMAS 2022)**

Theme: Innovations towards Automated Future

April 22-23, 2022

Organized by

Centre for Automation & School of Mechanical Engineering,
Vellore Institute of Technology Chennai

in association with

Asia Pacific University of Technology & Innovation, Malaysia

&

Amara Raja Batteries Ltd., Tirupati



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Call for Papers

IRMAS 2022 is the second international virtual conference organized by Centre for Automation (CFA) & School of Mechanical Engineering (SMEC) of Vellore Institute of Technology (VIT), Chennai, India in association with Asia Pacific University of Technology & Innovation (APU), Malaysia and Amara Raja Batteries Ltd., Tirupati. The conference provides an opportunity to bring together industrial practitioners, researchers, young innovators, academicians and students to present and exchange new ideas and applications in this broad field. The organizers of the conference invite authors to submit their original research articles including (but not limited to) the topics in following tracks.

Advanced Robotics Systems and Technologies

- Kinematics, dynamics, control and simulation of Robots
- Medical, rehabilitation and assistive robotics
- Bio-inspired robotic systems
- Mobile and Autonomous Robots
- Drones and drone applications
- Virtual reality and haptics
- Tele-robotics
- Humanoid robots
- Soft robotics

Advanced Mechatronics Systems and Control

- Smart Sensors and Actuators
- Human-Machine Interfaces
- Machine Vision
- Micro/Nano Technology in Mechatronics
- Modelling and Design
- System Identification and Adaptive Control
- Motion Control
- Real-Time and Hardware-in-the-Loop Simulation
- System Integration

Industry 4.0 and Smart Manufacturing

- Cyber-Physical Systems and Industry 4.0
- IIoT and cloud-based Manufacturing
- Mechanical system dynamics and fault diagnosis technology
- Precise and special processing technology
- Manufacturing system and digital manufacturing
- Additive Manufacturing systems

Intelligent Vehicle Technologies

- Advanced driver assistance systems
- Advanced sensing and recognition
- Automated vehicles
- Connected vehicles
- Driver monitoring
- Intelligent electrified vehicles
- Navigation and localization systems
- Vehicle dynamics and control
- Vehicle on-board diagnostics
- Vehicular signal processing

Intelligent Systems in Mechatronics and Robotics

- Artificial Intelligence
- Deep Learning and Neural Networks
- Fuzzy Logic and Expert Systems
- Computational Intelligence
- Natural Language Processing
- Ambient Intelligence
- Agents and Multi-agent Systems
- Machine Intelligence
- Evolutionary Algorithms

Energy Systems and Electric Vehicles

- Advanced Power System operation and Control
- Hybrid Intelligent Renewable Energy Systems
- Distribution System and Substation Automation
- Advanced Power Electronics and Control Strategies
- Electric and Hybrid Vehicles
- Batteries and Charging Systems
- Eco-driving and Energy-efficient Vehicles

Paper Publication

Peer reviewed accepted and presented papers will be published in **AIP Conference Proceedings (Scopus indexed)** with additional publication charges. (Optional)

Registration Fee

Indian Authors: ₹ 1000/-
Indian Listeners: ₹ 500/-
International Authors: \$ 30/-
International Listeners: \$ 15/-

Important Dates

- Submission of Full-length Paper : 28 February 2022
- Paper Acceptance Intimation : 15 March 2022
- Submission of Camera-ready Paper : 31 March 2022
- Last Date for Registration : 31 March 2022

Contact

Dr. Jegadeeshwaran R
Email: irmas2022@vit.ac.in
Phone: +91 9865338366
Website: <https://www.irmas.in/>