About Conference

Control Instrumentation Systems conference (CISCON) is a flagship event organized since 2004, by the Instrumentation and Control engineering department at Manipal Institute of Technology Manipal. This conference over the years has become a most sought-after conference and gave platform for both national and international participants to present their research papers and deliberate. Also witnessed many experts from reputed industry/institutes from India/abroad present Keynote/invited lectures. CISCON-2025, XXII edition is planned to be organized during August 1–2, 2025. Through the conference, we anticipate researchers, industry experts and academic experts deliberate challenges and ideas related to current trends in instrumentation, control, and systems engineering. The conference provides attendees and stakeholders a chance to do the networking while exposing to recent technical advancements.

In an era marked by rapid technological advancements and complex systems, the theme for CISCON-2025 is set to inspire, challenge, and illuminate the path forward. We are proud to announce our conference theme: "Bridging artificial intelligence with technologies for Systems and Control Engineering". As we sail through the sea of technological change, this theme invites participants to explore and chart the course for the future of control, instrumentation, and systems engineering. The theme underscores the importance of innovation, adaptability, and sustainability in a world where automation, data-driven decision-making, and interconnected systems have become the norm.

Key Focus Areas:

- Advanced Control Systems
- Data Science, AI/ML
- Cyber Physical Systems
- Next Generation Communications
- Sustainable Development
- Emerging Technologies

THEME

"Bridging artificial intelligence with technologies for Systems and Control Engineering"

Department of Instrumentation and Control Engineering, MIT, Manipal

The Department of Instrumentation and Control Engineering was started in the year 2001 with an intake of 30 students at Manipal Institute of Technology. The department has started B. Tech. program in Electronics and Instrumentation Engineering in 2018 with an intake of 60, B. Tech program in Cyber Physical Systems with an intake of 120. Department also has M. Tech programs in Electronics Engineering with two specializations in Embedded Control & Automation and Immersive Technologies. In addition, department offers M. Sc. program in Immersive Technologies. Department faculty guide PhD students in diverse domains like biomedical image processing / computer vision, sensor design, process control, smart transportation etc.

MIT, Manipal Academy of Higher Education

MANIPAL INSTITUTE OF TECHNOLOGY
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IEEE BANGALORE SECTION

XXII Control Instrumentation Systems Conference (CISCON-2025)

Organized in Hybrid Mode

By

Department of Instrumentation & Control Engineering, Manipal Institute of Technology, Manipal Academy of Higher Education,

CISCON

August 1–2, 2025

**Technical Co-Sponsor:
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- Linear Control Systems
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- Industrial Automation
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- Fuzzy Logic Controller
- Stochastic Control
- System Modeling
- State Estimation
- Sensors and Transducers
- Instrumentation

TRACK 2: Communication and Signal Processing (CSP)
- Digital Signal Processing
- Embedded Systems
- Speech, Audio and Language Processing
- Antenna and Microwave Communication
- Optical Communication
- Wireless Communication
- Multi-Sensor Data Fusion
- Image Processing
- Communication Networks
- Wireless Sensor Networks
- 5G/6G networks
- Cognitive and AI-enabled communications
- Satellite and space communications
- Vehicular Networks

TRACK 3: Cyber Physical Systems (CPS)
- Smart Grids
- Internet of Things
- Smart Cities and Urban Infrastructure
- Cyber Security
- AR/VR Technologies
- Wearable Devices and Personal IoT
- Healthcare and Medical IoT
- Smart Homes and Consumer IoT
- Optimization Techniques
- Smart Transportation
- Security and Privacy in CPS
- Systems of Systems
- Scalable Cyber Physical Systems

TRACK 4: Interdisciplinary Systems Design (ISD)
- Intelligent robots
- Mechatronic Systems
- Bio Medical Instrumentation
- Industrial IoT (IIoT) and Industry 4.0
- Renewable Energy
- Bio-MEMS and Microfluidics
- Aerospace Applications
- Electric Vehicles
- Mathematical Modelling

TRACK 5: Data Science and Engineering (DSE)
- Machine Learning
- Deep Learning
- AI Applications
- Data Analytics
- Generative AI
- Cloud Computing
- Intelligent Systems
- Natural Language Processing
- Data mining
- Ethical AI
- Block chain technologies

TRACK 6: Sustainable Technologies (ST)
- Human Machine Interfacing
- Innovation and Entrepreneurship
- Sustainability
- Skill development
- Agriculture and Environmental Monitoring
- Safety Monitoring
- Project Management
- Energy Management
- Social-economical systems
- Sustainable Manufacturing
- Waste management

IMPORTANT DATES:

Submission Deadline	21 April 2025
Acceptance Notification	20 May 2025
Closing Early Bird Registration	10 June 2025
Registration closes	25 June 2025
Camera Ready Copy	15 July 2025
Conference Dates	01-02 August 2025

All accepted and presented paper will be submitted for a possible inclusion in IEEE Xplore digital library.

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