



## IEEE International Conference on Industrial Technology (ICIT 2026)

Monterrey, Mexico, 4-6 March 2026

<http://icit2026.ieee-ies.org>

### **Call for Papers - Special Session on Real-time and data-based innovations in intelligent Cyber-Physical Systems**

#### *Organized and co-chaired by:*

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#### *Technical Outline of the Session and Topics:*

AI algorithms and machine learning are central to intelligent Cyber-Physical Systems (CPS), allowing systems to learn from data, predict faults, and autonomously adapt to changing conditions. Innovations include autonomous vehicles, driverless trains, energy management, health care solutions, biomedical devices, and collaborative robots working alongside humans in manufacturing, energy, transportation, and other sectors, improving efficiency and safety. Integrating artificial intelligence, machine learning, and the Internet of Things to enhance real-time, adaptive, and autonomous operations. Key advancements include improved fault prediction and self-adaptation in real-world systems involving reliability by enabling systems to analyze data, make informed decisions, and maintain control in complex environments, while also sparking discussions on ethics and privacy.

*Within this scope, topics of interest include, but are not limited to:*

- Real-time AI CPS
- AI and real-time on the edge
- Real-time Embedded AI
- Hardware in the loop for real-time CPS
- Data-based solutions for real-time CPS
- Real-time challenges for CPS
- Any related to innovations in real-time intelligent CPS

*Author's schedule:* [Same as the ICIT Conference](#)

All the instructions for paper submission are included on the conference website: <https://icit2026.ieee-ies.org>