



AI and Industry 4.0 for Better Health and Environment

16-18 December 2026, Selangor Darul Ehsan, Malaysia

Special Session

Artificial Intelligence for Real-Time Systems: Methods, Applications, and Challenges

This special session is organized and supported by the following educational partner:

Tishk International University

Erbil, Iraq



Session Chair: Prof. Kasim Mousa Al-Aubidy, *Tishk International University, Iraq.*

Session Committee:

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Synopsis:

Artificial intelligence (AI) has rapidly changed the design and operation of real-time systems in robotics, industrial automation, autonomous systems, healthcare, transportation, and smart infrastructure. This session explores AI integration into real-time systems, which must be reliable, responsive, and on time. It will discuss recent advances in machine learning, deep learning, and reinforcement learning in real-time systems. Latency, computational efficiency, scalability, resilience, and safety in real-time applications will be prioritized. Researchers can submit theoretical and practical papers on real-time monitoring and control, embedded intelligent systems, IoT, and autonomous decision-making. This special session introduces new ideas, encourages collaboration, and highlights cutting-edge AI solutions for real-time applications.

Topics:

This session welcomes the submission of unpublished research papers on subjects related to the application of AI in real-time systems, including but not limited to:

- Autonomous learning and feature extraction.
- Computer vision and image understanding.
- Natural Language Processing.
- Robotics and smart automation.
- Real-time decision-making systems.
- Healthcare and biomedical systems.
- Internet of Things and real-time monitoring and control

Call For Papers:

All submitted papers will be peer-reviewed and accepted papers published in the conference proceedings.

The proceedings will be submitted to be reviewed by IEEE, and if it meets IEEE quality review standards, then it may be eligible for inclusion in the IEEE Xplore Digital Library. The papers will be also included in SCOPUS and will be indexed by other relevant indexation services.

Important Dates:

- **Full paper Submission:** 15/09/2026
- **Notification of acceptance:**
Two weeks after submission.
- **Submission of camera-ready papers:**
15/10/2026
- **Author online registration:**
15/10/2026

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