CALL FOR PAPERS - SPECIAL SESSION

"AI, Digital Twins, and V2X Intelligence for Smart, Secure, and Sustainable Mobility"
for CODIT 2026
July 13-16, 2026 ▪ Bari, Italy

Session Co-Chairs:

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Session description:

This special session explores how Artificial Intelligence, Digital Twins, and next-generation connectivity (5G/6G, V2X) are transforming the landscape of smart and sustainable mobility systems. As vehicles become intelligent edge nodes within the Internet of Things, real-time communication, cooperative decision-making, and predictive modeling are redefining efficiency, safety, and energy awareness in transportation.

The goal is to bring together contributions in AI algorithms, edge computing architectures, cybersecurity frameworks, and intelligent embedded systems for connected vehicles and smart city infrastructures. It aims to bridge computational intelligence, communication systems, and sustainability, paving the way toward fully integrated digital mobility ecosystems.

The topics of interest include, but are not limited to:

- AI-based cooperative V2V, V2I, and V2X communication
- Digital twins and simulation for connected mobility
- Edge/fog computing architectures for intelligent vehicles
- Cybersecurity and privacy in vehicular communication systems
- Reinforcement and federated learning for autonomous driving
- IoT-enabled sensors and instrumentation in vehicular networks
- Energy-aware routing and green communication protocols
- 5G/6G and beyond for ultra-reliable low-latency V2X networks
- Parallel and distributed computing for large-scale traffic intelligence
- Data fusion and AI-driven decision-making in transportation
- Smart mobility platforms integrating AI and information systems
- Cloud-edge collaboration for predictive traffic control

SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **February 07, 2026:** **http://controls.papercept.net/conferences/scripts/start.pl**. In PaperCept, click on the **CoDIT 2026 link "Submit a Contribution to CoDIT 2026" and follow the steps.**

IMPORTANT: All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).

DEADLINES

February 07, 2026: deadline for paper submission

April 30, 2026: notification of acceptance/reject

May 20, 2026: deadline for final paper and registration