9ᵀᴴ International Conference on Control, Automation, and Diagnosis

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July 1-3, 2025
Barcelone, Spain

Submission deadline: January 31, 2025

CALL FOR PAPERS
SPECIAL SESSION ON
AI-Driven Mobility and Transportation for Smart Cities in the Era of Next-Gen 5G/6G
for ICCAD 2025
July 1ˢᵗ-3ʳᵈ, 2025, Barcelona, Spain

Session Co-Chairs:

- Rocío Pérez de Prado, Telecommunication Engineering Department, University of Jaén, Jaén, Spain, rperez@ujaen.es
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Session description:

The demand for smarter, more sustainable urban mobility and transportation solutions has skyrocketed in recent years. Cities worldwide are undergoing a transformative shift in how mobility is perceived and implemented, driven by evolving societal habits and heightened environmental awareness. The pandemic accelerated several key trends—remote work, individual modes of transport, and a greater focus on environmental sustainability—creating unique opportunities to revolutionize transportation systems toward sustainability, resilience, and human-centered design.

Smart mobility solutions aim to reduce costs, combat air and noise pollution, enhance safety and efficiency, and alleviate traffic congestion. Additionally, these technologies are pivotal for decarbonizing the transport sector and achieving ambitious global emission reduction targets. Among these innovations, artificial intelligence (AI) emerges as a powerful enabler for advancing efficient, sustainable, and inclusive urban mobility systems.

This special session invites contributions that explore innovative strategies to harness AI for transforming urban mobility. We seek to advance comprehensive, data-driven approaches that integrate information from smart infrastructures (e.g., intelligent traffic systems, urban management tools), vehicle fleets (e.g., electric cars, e-bikes), and external data sources, ensuring inclusive and secure implementation while protecting residents' privacy.

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

Mobility as a Service (MaaS), Autonomous vehicles in urban environments, Application of AI to self-configuration in 5G/6G networks, Blockchain applications in transportation, Sustainable production of electric vehicles, Smart energy management in transportation, Integration of electric vehicles and eBikes in urban systems, Electromobility innovations, Intelligent parking solutions, Multimodal public transportation, Automation in decision-making for mobility planning

SUBMISSION

Papers must be submitted electronically for peer review by**: January 31ᵗʰ, 2025**

https://www.iccad-conf.com/submission/

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).