CALL FOR PAPERS - SPECIAL SESSION

"AI-Enabled Intelligent Systems Using UAVs and Remote Sensing for Smart City Applications"

for CODIT 2026

July 13-16, 2026 ▪ Bari, Italy

Session Co-Chairs:

Dr. Hatem Keshk, IRC for Aviation and Space Exploration, KFUPM, KSA - hatem.keshk@kfupm.edu.sa

Dr. Ayman Abdallah, IRC for Aviation and Space Exploration, KFUPM, KSA - aymanma@kfupm.edu.sa

Session description:

This special session deals with the challenges associated with the integration, analysis, and intelligent interpretation of data acquired from Unmanned Aerial Vehicles (UAVs), remote sensing platforms, and smart sensor networks for smart city applications. Despite rapid advances in UAV technologies, Earth observation systems, and artificial intelligence, there remain critical gaps in scalable data fusion, real-time processing, autonomous decision-making, and the effective deployment of AI-driven systems in complex urban environments. Addressing these challenges is essential for enabling intelligent urban monitoring, infrastructure management, environmental assessment, and data-driven decision support in next-generation smart cities.

The goal is to bring together researchers and practitioners working on AI-enabled UAV and remote sensing systems that support smart city intelligence and autonomous urban applications. This session aims to showcase recent advances in machine learning, deep learning, computer vision, data fusion, and smart sensing technologies that enhance urban monitoring, infrastructure inspection, environmental mapping, and intelligent city services. Emphasis is placed on practical implementations, scalable frameworks, and real-world applications that demonstrate how intelligent systems can transform smart city planning, management, and sustainability.

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

- AI and deep learning for UAV and remote sensing data analysis
- Intelligent urban monitoring using drones and satellite imagery
- Smart sensor networks and IoT systems for smart city applications
- UAV-based data acquisition for urban mapping and infrastructure inspection

- Computer vision and image understanding for smart cities
- Multi-sensor data fusion from UAVs, satellites, and ground sensors
- Autonomous and semi-autonomous UAV systems for urban environments
- Predictive analytics and decision-support systems for smart cities
- Real-time and edge AI solutions for UAV and remote sensing platforms
- Digital twins and 3D city modeling using AI and aerial data
- Sustainable and resilient smart city applications enabled by UAVs
- AI-driven urban planning, transportation, and environmental monitoring

---

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