

ICIST -2026.
International Conference on Intelligent Infrastructure and Smart Technologies

Organized by TUIT, Tashkent, Uzbekistan

Date: 16th – 17th October 2026

******* CALL FOR PAPERS *******

SPECIAL SESSION ON

Artificial Intelligence for Sustainable Development: Climate Intelligence, Smart Cities, Intelligent Infrastructure, Sustainable Engineering, and Digital Transformation

SESSION ORGANIZERS:

[INSERT ORGANIZERS NAME WITH AFFILIATION & EMAIL ID]

Dr Deepika Varshney, Assistant Professor, JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY, NOIDA, deepika.varshney@mail.jiit.ac.in

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EDITORIAL BOARD: (Optional):

[Name, University or Organization, Country, e-mail]

SESSION DESCRIPTION:

Artificial Intelligence (AI) is playing a transformative role in addressing global sustainability challenges by enabling intelligent decision-making, resilient infrastructure, and data-driven solutions across diverse engineering domains. The convergence of AI with climate intelligence, smart cities, sustainable engineering, digital transformation, and intelligent infrastructure is accelerating innovations that support sustainable development and improve the quality of life.

This special session aims to provide a multidisciplinary platform for researchers, academicians, industry professionals, and policymakers to present the latest advances, innovative methodologies, and practical applications of AI for sustainable development. The session encourages original contributions that integrate machine learning, deep learning, generative AI, computer vision, digital twins, IoT, robotics, and cyber-physical systems to solve real-world challenges in infrastructure, transportation, environmental management, energy systems, construction, and urban development. It also welcomes research focusing on responsible, explainable, and trustworthy AI that promotes resilient, inclusive, and sustainable communities aligned with the United Nations Sustainable Development Goals (SDGs).

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:

- Artificial Intelligence and Machine Learning for Sustainability
- Climate Intelligence and Environmental Monitoring
- AI for Disaster Prediction and Climate Resilience
- Smart Cities and Urban Informatics
- Intelligent Transportation Systems
- AI-Enabled Civil Engineering and Construction
- Structural Health Monitoring and Predictive Maintenance

- Digital Twins and Smart Infrastructure
- AI-Integrated Building Information Modeling (BIM)
- Computer Vision for Infrastructure Inspection
- Internet of Things (IoT) and Edge AI for Smart Environments
- Sustainable Construction and Green Buildings
- Water Resource and Environmental Management
- Renewable Energy and Smart Grids
- Geospatial AI, GIS, and Remote Sensing
- Robotics, Autonomous Systems, and Drones for Infrastructure
- Generative AI and Foundation Models for Engineering Applications
- Explainable, Trustworthy, and Responsible AI
- Cyber-Physical Systems and Intelligent Automation
- Digital Transformation for Sustainable Development Goals (SDGs)

SUBMISSION PROCEDURE:

Researchers, academicians, industry professionals, and practitioners are invited to submit original and unpublished research papers for the special session titled **"Artificial Intelligence for Sustainable Development: Climate Intelligence, Smart Cities, Intelligent Infrastructure, Sustainable Engineering, and Digital Transformation"** on or before **15th August 2026**.

Submitted manuscripts must present original research and should not be under consideration for publication elsewhere. All papers should follow the conference submission guidelines available on the conference website. Each submission will undergo a rigorous **double-blind peer-review** process conducted by experts in the relevant fields.

1. NOTE

While submitting a manuscript, authors should clearly mention the special session title:

"Artificial Intelligence for Sustainable Development: Climate Intelligence, Smart Cities, Intelligent Infrastructure, Sustainable Engineering, and Digital Transformation"

at the top of the first page of the manuscript (above the paper title) to ensure proper assignment to the special session.

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