

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

Agentic Intelligence for Autonomous Decision-Making and Smart Systems

SESSION ORGANIZERS:

Dr. Lokesh Jain, Associate Professor, School of Engineering and Technology, Vivekananda Institute of Professional Studies - Technical Campus (VIPS-TC), Delhi, India

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EDITORIAL BOARD: (Optional):

NA

SESSION DESCRIPTION:

The Special Session on Agentic Intelligence for Autonomous Decision-Making and Smart Systems aims to provide a premier forum for researchers, practitioners, and industry experts to discuss recent advances in autonomous intelligent systems driven by Agentic AI. Leveraging large language models (LLMs), foundation models, reinforcement learning, knowledge representation, and multi-agent collaboration, agentic intelligence enables AI systems to perceive their environment, reason, plan, make autonomous decisions, and execute complex tasks with minimal human intervention. These capabilities are transforming a wide range of application domains, including smart healthcare, intelligent transportation, Industry 5.0, robotics, cybersecurity, Internet of Things (IoT), cloud-edge computing, smart cities, and next-generation communication networks. This special session invites original research contributions on novel algorithms, architectures, frameworks, and real-world applications that advance autonomous decision-making, collaborative intelligence, trustworthy and explainable AI, adaptive learning, and scalable intelligent systems. The session seeks to foster interdisciplinary collaboration and highlight innovative solutions that enhance the efficiency, resilience, security, and intelligence of future autonomous systems.

RECOMMENDED TOPICS:

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

- Agentic AI and Autonomous Intelligent Systems
- Autonomous Decision-Making and AI Planning
- Multi-Agent Systems and Collaborative Intelligence
- Large Language Model (LLM)-Based AI Agents
- Foundation Models for Intelligent Decision Support
- Multi-Agent Reinforcement Learning and Adaptive Learning
- Human-AI Collaboration and Human-in-the-Loop Systems
- Explainable, Trustworthy, and Responsible Agentic AI

- Knowledge Graphs, Reasoning, and Retrieval-Augmented Generation (RAG)
- AI Agents for Intelligent Computing and Network Automation
- Edge AI, Distributed Intelligence, and Federated Learning
- Agentic AI for Internet of Things (IoT), Smart Cities, and Cyber-Physical Systems
- AI for Robotics, Autonomous Vehicles, and Industrial Automation
- AI-Driven Cybersecurity, Threat Intelligence, and Autonomous Response
- Real-World Applications of Agentic Intelligence in Healthcare, Finance, Education, Manufacturing, and Smart Infrastructure

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **[Agentic Intelligence for Autonomous Decision-Making and Smart Systems on or before 30 July]** . All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at conference websites . All submitted papers will be reviewed on a double-blind, peer-review basis.

NOTE: While submitting a paper in this special session, please specify **[Agentic Intelligence for Autonomous Decision-Making and Smart Systems]** at the top (above paper title) of the first page of your paper.

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