



ICICCS-2026

International Conference on Intelligent Computing and Communication Systems

ORGANISED BY: BIRMINGHAM CITY UNIVERSITY, ENGLAND, UNITED KINGDOM

14-16th July 2026.

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

SPECIAL SESSION ON

Generative AI and Agentic AI: Emerging Trends and Applications

SESSION ORGANIZERS

Dr. Sunil Kumar

Senior Member IEEE,

Associate Professor,

School of IT,

AURO University, India

Email: sunil.kumar@aurouniversity.edu.in

SESSION DESCRIPTION

The rapid evolution of **Generative Artificial Intelligence (Gen AI)** and **Agentic AI** is redefining the foundations of intelligent computing, autonomous decision-making, and human-machine collaboration. While Generative AI has demonstrated unprecedented capabilities in content creation, reasoning, and multimodal intelligence, **Agentic AI** extends these capabilities by enabling systems that can **plan, act, adapt, and learn autonomously** to achieve complex goals in dynamic environments.

This special session aims to bring together **researchers, academicians, industry practitioners, and doctoral scholars** to discuss emerging theories, architectures, algorithms, and applications of Gen AI and Agentic AI in intelligent computing and communication systems. The session will emphasize **responsible, explainable, and trustworthy AI**, addressing both technological advancements and ethical considerations.

Given the growing relevance of autonomous AI agents in domains such as **smart cities, healthcare, cybersecurity, education, Industry 5.0, IoT, and communication networks**, this session aligns strongly with the core themes of ICICCS-2026.

RECOMMENDED TOPICS

Topics of interest for this special session include, but are not limited to:

- Large Language Models (LLMs) and Foundation Models
- Multimodal Generative AI (text, image, audio, video)
- Prompt engineering and retrieval-augmented generation (RAG)

- Generative AI for intelligent communication systems
- Gen AI in education, healthcare, and smart applications
- Autonomous AI agents and multi-agent systems
- Planning, reasoning, and goal-oriented AI architectures
- Agentic workflows and tool-augmented AI systems
- Self-learning, adaptive, and self-reflective agents
- Human-AI collaboration and decision support systems
- Gen AI + Agentic AI for smart cities and IoT
- AI agents in cybersecurity and threat intelligence
- Intelligent edge and cloud-based AI systems
- AI agents for Industry 4.0 / 5.0 and digital transformation
- AI-driven communication networks and protocols
- Explainable and trustworthy Agentic AI
- Ethical challenges and responsible AI design
- Bias, fairness, and accountability in autonomous systems
- AI safety, regulation, and governance frameworks

SUBMISSION PROCEDURE

Researchers, academicians, and industry practitioners are invited to submit original research papers to this **special session on Generative AI and Applications** by **28 February 2026**.

All submissions must be original and should not be under review or published elsewhere. Papers must be prepared and submitted in accordance with the conference manuscript submission guidelines available at: <https://iciccsconference.com/paper-submission/>

All submitted papers will undergo a double-blind peer review process.

IMPORTANT NOTE

While submitting the manuscript, authors must clearly mention the Special Session Title at the top of the first page of the paper (above the paper title) to ensure correct consideration under this special session.