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International Conference on Intelligent Computing and Communication Systems

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Conference Website: <https://iciccsconference.com>

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

SPECIAL SESSION ON

Next-Generation Intelligent Systems with LLMs and Agentic AI

SESSION ORGANIZERS

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SESSION DESCRIPTION

The rapid evolution of Large Language Models (LLMs) and Agentic AI is transforming intelligent computing and communication systems. While LLMs provide powerful capabilities in reasoning, language understanding, and multimodal interaction, Agentic AI extends these models into autonomous systems capable of planning, decision-making, tool usage, and goal-directed behavior. Together, they enable the development of next-generation intelligent systems that are adaptive, context-aware, and capable of complex problem solving across dynamic environments. This special session aims to bring together researchers, academicians, and industry practitioners to explore theoretical foundations, architectural innovations, and real-world applications of LLM-driven agentic systems. The session will focus on autonomous AI agents, multi-agent collaboration, human-AI interaction, trustworthy and explainable AI, real-time decision intelligence, and scalable deployment in communication networks, healthcare, cybersecurity, robotics, and smart infrastructures. The session encourages original research contributions addressing challenges such as robustness, alignment, ethical AI, computational efficiency, privacy-preserving learning, and integration of LLMs with edge/cloud communication architectures. By fostering interdisciplinary dialogue, this session seeks to shape the future of intelligent autonomous systems powered by LLMs and Agentic AI.

RECOMMENDED TOPICS

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

- Architectures for LLM-Driven Agentic Systems
- Autonomous Planning and Goal-Oriented AI Agents
- Multi-Agent Collaboration and Coordination Mechanisms

- LLM Integration with Edge, Cloud, and Hybrid Computing Environments
- Retrieval-Augmented Generation (RAG) and Knowledge-Enhanced Agents
- Tool-Augmented LLMs and API-Orchestrated AI Systems
- Explainability, Interpretability, and Trust in Agentic AI
- Alignment, Safety, and Ethical Considerations in Autonomous AI Systems
- Energy-Efficient and Scalable Deployment of LLM-Based Agents
- LLMs for Intelligent Communication Networks (5G/6G and Beyond)
- Human–AI Collaboration and Interactive Intelligent Agents
- Reinforcement Learning and Self-Improving AI Agents
- Security, Privacy, and Robustness in Agentic Architectures
- Multimodal LLMs for Vision–Language–Speech Integration
- Domain-Specific Applications: Healthcare, Cybersecurity, Robotics, Smart Cities, and Education

SUBMISSION PROCEDURE

Researchers, academicians, and industry practitioners are invited to submit original research papers to this **special session on [Next-Generation Intelligent Systems with LLMs and Agentic AI]** by **05 March 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://icicsconference.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.