ComSIA-2026
International Conference on Computing Systems and Intelligent Applications

***Organized* by School of Open Learning, University of Delhi & Shaheed Rajguru College of Applied Sciences for Women, University of Delhi**
20-21st March 2026.

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

SPECIAL SESSION ON
Agentic AI for Sustainable Development: Autonomous Decision-Makers Driving SDG 13 Climate Action

SESSION ORGANIZERS:

1) Dr Raghavendra M Devadas
   Manipal Institute of Technology Bengaluru, Manipal Academy of Higher Education, Manipal, India
   Email: Raghavendra.devadas@manipal.edu
2) Dr Vani Hiremani
   Symbiosis Institute of Technology, Symbiosis International (Deemed) University, Pune, India
   Email: vani.hiremani@gmail.com
3) Ms Sowmya T
   Manipal Institute of Technology Bengaluru, Manipal Academy of Higher Education, Manipal, India
   Email: sowmya.t@manipal.edu
4) Dr Praveen Gujjar
   Faculty of Management Studies JAIN (Deemed-to-be University) Bengaluru, India
   Email: dr.praveengujjar@cms.ac.in

EDITORIAL BOARD: (Optional)
[Name, University or Organization, Country, e-mail]

SESSION DESCRIPTION:
The climate crisis demands solutions that are **adaptive, proactive, and resilient**—traits often beyond the reach of conventional, pre-programmed AI. **Agentic AI** represents the next stage of artificial intelligence: systems that sense their environment, set intermediate goals, negotiate with other agents, and act autonomously while remaining aligned with human oversight.
By embedding these capabilities in climate-relevant domains—renewable energy, urban infrastructure, disaster management—agentic AI can operate as a **continuous decision-maker** rather than a passive analytics tool. For example, autonomous agents can:

- anticipate extreme weather using real-time multi-modal sensing and self-update their predictive models;
- dynamically balance energy loads across distributed renewable grids without waiting for human operators;
- negotiate carbon-credit trades or water-use rights in decentralized markets;
- coordinate emergency response during floods or wildfires when communication networks are disrupted.

Such applications directly accelerate **Sustainable Development Goal 13: Climate Action** by providing **timely, decentralized, and scalable interventions**.
This special session aims to unite AI researchers, climate scientists, urban planners, and policy stakeholders to explore **new architectures, governance frameworks, and pilot implementations** where agentic AI acts as an autonomous partner in climate resilience.

RECOMMENDED TOPICS:

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

Autonomous Multi-Agent Networks for Adaptive Climate Monitoring and Early Warning Systems
– Designing swarms of sensing agents that collaboratively detect and predict micro-climate anomalies.
Agentic AI for Dynamic Carbon Trading and Transparent Climate Finance
– Building negotiation agents to manage real-time carbon credit exchanges across decentralized ledgers.
Self-Governing Renewable Energy Grids: Agentic Control for Net-Zero Cities
– Developing autonomous controllers that balance supply, demand, and storage in distributed energy networks.
Disaster-Resilient Infrastructure Through Agent-Based Decision Loops
– Coordinating evacuation routes, resource allocation, and logistics in real time during floods, wildfires, or heatwaves.
Ethics and Governance of Climate-Critical Agentic AI
– Establishing frameworks for accountability, explainability, and democratic oversight of autonomous climate agents.
Integrating Indigenous Knowledge with Agentic AI for Community-Centric Climate Adaptation
– Fusing local ecological wisdom with autonomous reasoning to create culturally aware mitigation strategies.

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **[insert special session topic]** ***on or before*** **[insert due date]**. 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 https://comsia.in/paper_submission.html. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify [**insert special session title**] at the top (above paper title) of the first page of your paper.

* * * * * *