ICESIC-2027

7th International Conference on Emerging Systems and Intelligent Computing

(14 - 16 May, 2027)

UCSI University, Kuala Lumpur, Malaysia

CALL FOR SPECIAL SESSION PROPOSAL

Title of the proposed special session along with a short abbreviation

Special Session on Responsible, Sustainable and Intelligent Technologies for Emerging Systems

Names/affiliation of the Session Chair(s) (including brief bio and contact info) along with emails of all chairs).

Dr. Chinmaya Kumar Nayak
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Dr. Chinmaya Kumar Nayak is an Associate Professor at Sri Sri University, Odisha, India, with a Ph.D. in Computer Science and Engineering from VSSUT, Burla, and B.E. and M.Tech. degrees from BPUT, Odisha.

With 19+ years of teaching and research experience, his areas of expertise include Wireless Sensor Networks, Data Science, Artificial Intelligence, and Machine Learning. He has mentored numerous students, successfully produced three Ph.D. scholars, published in Scopus- and SCI-indexed journals, and authored books including *Data Structure Using C*, *Introduction to Machine Learning*, and *Operating System*.

He has received several prestigious honors, including the Sandeep Mohapatra Memorial Medal from the Institution of Engineers (India), Best Teacher Awards, and Excellence in Education Awards. He also serves as a reviewer for international journals.

Session abstract/theme (should clearly mention the significance of the topic and the rationale of the need for the proposed session).

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The proposed Special Session, "Responsible, Sustainable and Intelligent Technologies for Emerging Systems", aims to bring together researchers and practitioners working on next-generation intelligent and emerging technologies. The session will cover advances in Artificial Intelligence, Machine Learning, IoT, Wireless Sensor Networks, embedded and electronic systems, communication technologies, edge computing, and cyber-physical systems.

With growing concerns regarding energy efficiency, sustainability, security, privacy, reliability, and responsible technology development, the session will provide a platform for innovative research addressing these challenges. It will encourage interdisciplinary contributions integrating intelligent computing, sensing, communication, and sustainable technologies for real-world applications.

Topics of Interest

The topics of interest include, but are not limited to:

- Artificial Intelligence, Machine Learning and Deep Learning
- Generative AI and Large Language Models
- Explainable, Responsible, Trustworthy and Sustainable AI
- Intelligent Data Analytics and Decision Support Systems
- Wireless Sensor Networks, IoT and Sensor Intelligence
- Smart Sensors, Embedded Systems and Intelligent Electronics
- Energy-Efficient and Low-Power Electronic Systems
- Wireless Communication and Next-Generation Networks
- Signal Processing and Intelligent Signal Analysis
- Edge, Fog and Cloud Computing
- Distributed, Federated and Privacy-Preserving Learning
- Cyber-Physical Systems, Digital Twins and Autonomous Systems
- Intelligent Robotics and Industrial Automation
- Smart Applications in Healthcare, Agriculture, Cities and Environment
- Cybersecurity, Privacy, Reliability and Sustainable Emerging Systems

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