

IC-AISMART 2027

**SECOND INTERNATIONAL CONFERENCE ON
AGRIVOLTAICS INNOVATIONS FOCUSING ON
SMART FARMING WITH RENEWABLE ENERGY,
MACHINE LEARNING AND EMBEDDED
TECHNOLOGIES**



Learn • Practice • Improve



ORGANIZED BY

Department of Information Science and
Engineering (ISE),
JSS Academy of Technical Education, Bengaluru

IN COLLABORATION WITH JSSATEB-STEP

JSS Academy of Technical Education,
Bengaluru – Science and Technology
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BANGALORE SECTION



SCAN TO SUBMIT YOUR PAPER VIA CMT



**“CULTIVATING INTELLIGENCE,
HARVESTING SUSTAINABILITY.”**



**26th August –
27th August 2027**



MODE
Hybrid Mode



LOCATION
JSSATE, Bengaluru

**“SMART FARMS, CLEAN ENERGY,
SUSTAINABLE FUTURES.”**



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www.ic-aismart.com

IC-AISMART 2027 TRACK-1

— Clarity Growth • Action —



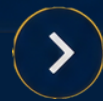
**INNOVATIONS IN AGRIVOLTAIC
SYSTEMS, SMART FARMING, AND
SUSTAINABLE ENERGY FOR
ENVIRONMENTAL SUSTAINABILITY**

1. Agrivoltaic System Optimization and Energy Harvesting
2. Smart Farming with IoT and AI
3. Sustainable Water Management in Agriculture
4. Renewable Energy-Powered Agricultural Systems
5. Climate-Resilient Agricultural Technologies
6. Agricultural Robotics and Automation
7. Policy Frameworks and Socio-Economic Impacts



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graph TD; GOALS[GOALS] --> SUCCESS((SUCCESS)); SUCCESS --> PLAN[PLAN]; PLAN --> ACTION[ACTION];
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**“CULTIVATING A SUSTAINABLE
FUTURE THROUGH SMART
AGRIVOLTAICS, RENEWABLE
ENERGY, AND INTELLIGENT
FARMING.”**



**“EMPOWERING AGRICULTURE THROUGH SMART ENERGY,
INTELLIGENT TECHNOLOGY, AND SUSTAINABLE INNOVATION.”**

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TRACK-2

Grow Your Skills • Build Your Strategy



INNOVATIONS IN RENEWABLE ENERGY, SMART GRID, AND IOT FOR INTELLIGENT ENERGY MANAGEMENT

1. Next-Generation Smart Grid Architectures and Optimization
2. IoT-Enabled Energy Monitoring and Control
3. Hybrid Renewable Energy Integration
4. Advanced Energy Storage and Battery Technologies
5. Decentralized Power Distribution and Microgrids
6. Cybersecurity and Data Protection in Smart Grids
7. Energy Policy, Sustainability, and Future Trends



**"POWERING A SMARTER FUTURE THROUGH
RENEWABLE ENERGY, INTELLIGENT GRIDS,
AND IOT-ENABLED ENERGY MANAGEMENT."**

IC-AISMART 2027 TRACK-3

Learn ■ Practice ■ Improve



ADVANCES IN MACHINE LEARNING, COMPUTER VISION AND COMPUTER NETWORKS FOR INTELLIGENT SYSTEMS

1. Deep Learning and Neural Networks for Computer Vision
2. Edge AI and Embedded Machine Learning
3. 5G, 6G, and Next-Generation Networking
4. AI-Driven Network Security and Cyber Threat Detection
5. Federated Learning and Distributed AI Systems
6. Human-Computer Interaction and AI-Based Robotics
7. Quantum Computing and AI in Network Optimization



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**INNOVATIONS IN EMBEDDED SYSTEMS,
VLSI TECHNOLOGY AND COMMUNICATION
ENGINEERING**

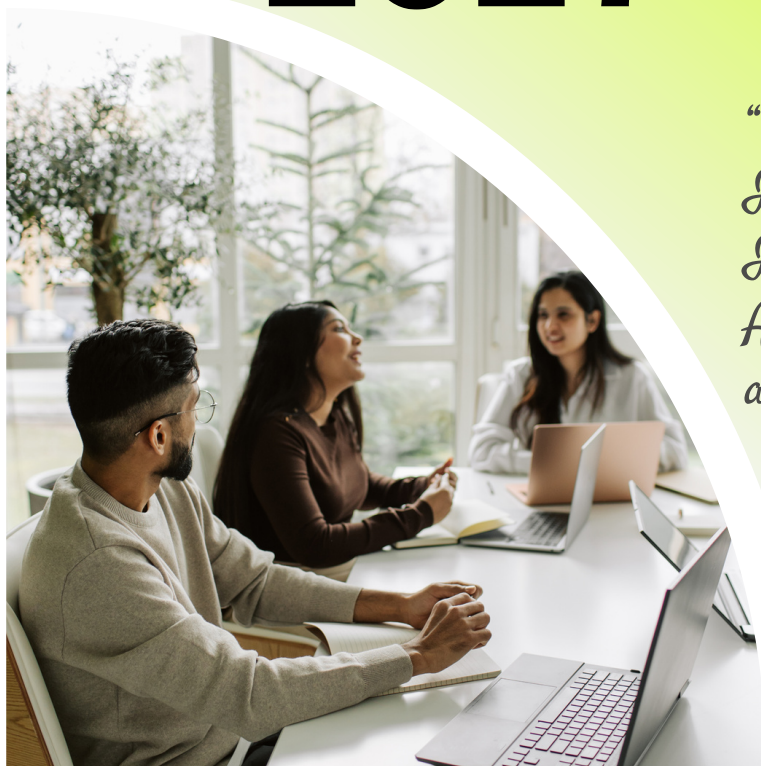
TRACK-4

1. Low-Power and High-Performance VLSI Design
2. Embedded AI and Edge Computing
3. Advanced FPGA and SoC Architectures
4. Next-Generation Wireless Communication Technologies
5. IoT and Smart Sensor Networks
6. Secure Hardware and Cryptographic Implementations
7. Automotive and Industrial Embedded Systems

*"Building Smarter Futures through
Machine Learning, Computer Vision,
and Intelligent Networks."*



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*“Transforming
Industries through
Intelligent Robotics,
Autonomous Systems,
and Smart Automation.”*



**ADVANCES IN INTELLIGENT ROBOTICS,
AUTONOMOUS SYSTEMS, AND INDUSTRIAL
AUTOMATION FOR SMART APPLICATIONS**

TRACK-5

1. Intelligent Robotics and Autonomous Systems
2. Industrial Automation and Smart Manufacturing
3. Human-Robot Interaction and Collaborative Robots
4. Mobile Robots, Drones, and Navigation Systems
5. AI, Machine Vision, and Control Systems for Robotics



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TRACK-6



(SPECIAL TRACK) INNOVATION, ENTREPRENEURSHIP, AND SOCIETAL IMPACT IN EMERGING TECHNOLOGIES

1. Startup Ecosystems and Technology Commercialization
2. AI and Machine Learning for Social Good
3. Sustainable Business Models for Renewable Energy and Smart Cities
4. Tech-Driven Social Entrepreneurship
5. Government Policies and Industry-Academia Collaborations
6. Women in Technology and Inclusive Innovation
7. Ethical AI and Responsible Innovation



**"TRANSFORMING EMERGING TECHNOLOGIES
INTO INNOVATIVE ENTERPRISES AND
SUSTAINABLE SOLUTIONS FOR SOCIETAL
PROGRESS."**

