



















INTERNATIONAL CONFERENCE on

Artificial Intelligence for Computing, Astronomy and Renewable Energy Organized by Centre of Excellence in Renewable Energy and Centre of Excellence in Astronomical Studies



ABOUT AICARE Of Excellence in Renewable Energy, UEM Kolkata and Centre Of Excellence in Astronomy, UEM KOLKATA. The conference is technically co-sponsored by IEEE Kolkata Section. Participants from academia, industry, and government agencies come together to present their research findings, discuss challenges and propose innovative solutions to address the evolving demands of the different Engineering fields. Through keynote speeches, technical sessions, and networking opportunities, the conference aims to stimulate interdisciplinary discussions and inspire new avenues of research that contribute to the advancement of modern Artificial Intelligence and IOT based engineering practices worldwide.

AICARE 2025 will be held at the University of Engineering and Management, Kolkata on 21st and 22nd November, 2025. After review, all accepted and presented papers will appear in IEEE Xplore.

*(IEEE CONFERENCE ID: 66005)

Paper Submission link: https://cmt3.research.microsoft.com/AICARE2025

Website link: https://aicare.uem.edu.in/



PAPER SUBMISSION QR CODE

SUBJECT TRACKS

ASTRONOMY

- Astrophysical Data Analysis
- Star Formation
- Nucleosynthesis
- Solar Astrophysics
- Image Processing for Astronomy
- Exoplanet Detection and Characterization
- Time Series Analysis of Astronomical Data
- Telescope Automation and Control
- Big Data Challenges in Astronomy
- Simulations of Cosmic Phenomena
- Galaxy Evolution
- Galaxy Classification Radio Astronomy
- Gravitational Wave Detection
- Stellar Evolution
- Large Astronomical Surveys
- Cosmological Simulations and Modelling
- Space Mission Planning and Operations
- Anomaly Detection in Astronomical Observations Visualization Techniques for Astronomical Data
- Quantum Computing and AI in Astronomy

UAV NETWORKS

- AI enabled UAV applications in Autonomous Navigation
- Computer Vision Techniques for Smart UAVs
- Al-Enhanced Object Detection and Tracking
- Swarm Intelligence and Cooperative UAV Systems
- Machine Learning for Environmental Monitoring
- UAVs in Search and Rescue Operations
- Security Challenges in UAV Operations and AI Solutions
- UAV swarming and coordination for IoT deployments
- applications
- Computation offloading for UAV-enabled MEC
- UAV's trajectory design for UAV-enabled IoT
- UAV-enabled IoT
- MIMO/massive MIMO/millimeter wave technologies for
- Quality of Service provisioning for UAV-enabled IoT

- and Flight Control

- Al enabled UAV Applications in Precision Agriculture
- Data Processing and Analysis for UAV Imagery • Ethics and Regulations in UAV AI Applications
- New opportunities/challenges/use cases for UAV-enabled
- UAV-assisted data collection and analytics for IoT
- Protocols and architectures for UAV-enabled MEC
- Spectrum management and multiple access schemes for
- Green energy powered UAV-enabled IoT networks
- **UAV-enabled IoT**
- Network security and information assurance for UAV-

KEY DATES

- 3rd March, 2025 : Full Paper Submission Begins
- : Paper Submission Ends **21st August, 2025**
- : Acceptance Notifications 30th August, 2025
- 15th September, 2025 : Camera Ready Submissions
- 21st and 22nd November, 2025: Conference Dates

FEES DETAILS

EARLY BIRD REGISTRATION FEE REGULAR REGISTRATION FEE

Author Category	IEEE Members Fee	Non-IEEE Members Fee	Author Category	IEEE Members Fee	Non-IEEE Members Fee
Student Authors	8260 INR	9440 INR	Student Authors	9440 INR	10620 INR
Academic Institution Delegates	9440 INR	10620 INR	Academic Institution Delegates	10620 INR	11800 INR
Industry / R&D Professionals	11800 INR	12980 INR	Industry / R&D Professionals	12980 INR	14160 INR
Foreign Delegates	USD 295	USD 354	Foreign Delegates	USD 413	USD 472

^{**}All fees are inclusive of 18% GST charges.

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APPLICATIONS OF AI IN COMPUTING

- Machine Learning and Deep Learning Innovations Natural Language Processing Applications
- Al in Cybersecurity
- Ethics and Fairness in Al Al for Fog Computing
- AI in Cloud Computing
- Al for Edge Computing Reinforcement Learning Techniques
- Computer Vision and Image Processing • Explainable AI (XAI)
- AI for IIoT (Industrial Internet of Things) Data Privacy and Al
- Al-Driven Software Engineering
- Al in Robotics and Automation Augmented Reality and Al
- Al for Predictive Analytics
- Al in Healthcare Computing • Quantum Computing and Al
- Al for Resource Optimization

RENEWABLE ENERGY

- Machine Learning for Renewable Energy Forecasting Al in Smart Grid Management and Optimization
- Predictive Maintenance for Renewable Energy Systems • AI-Driven Energy Storage Solutions
- Wind Energy Prediction and Optimization using AI AI in Electric Vehicle Integration with Renewable Energy
- Decentralized Energy Management using Blockchain and AI Al for Energy Demand Response Strategies
- Computer Vision for Solar Panel Inspection • Optimizing Energy Efficiency in Buildings with AI

• Data Analytics for Solar Energy Performance

- AI in Hydropower Generation and Management • Al Solutions for Biomass Energy Optimization
- Artificial Intelligence for Renewable Energy Microgrids Environmental Impact Assessment using AI Techniques • Integration of AI in Climate Change Mitigation Strategies
- Al and loT for Enhanced Energy Monitoring Systems Smart Renewable Energy System Design with AI
- Data-Driven Policy Making in Renewable Energy • Future Trends: AI and Next-Generation Renewable
- Technologies. • Green energy technologies
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^{**}Special discount in Registration Fees are available in Women in Engineering category. For details, refer to conference official website.