

5th International Conference on Electronics and Renewable Systems

ICEARS 2027

22-24 February 2027

Organized by
St. Mother Theresa Engineering College
 Tuticorin (Thoothukudi), Tamil Nadu, India



About ICEARS

The Fifth International Conference on Electronics and Renewable Systems (ICEARS 2027) is a new annual conference organized by St. Mother Theresa Engineering College, Thoothukudi, India. The theme of the conference is "Smart Electronics and renewable energy systems for sustainable development" and the event will be held on 22-24 February 2027 at Thoothukudi, Tamil Nadu, India. The conference theme is "Smart Electronics and renewable energy systems for sustainable development". The Conference primarily focuses on the state-of-the-art technologies, methods, strategies, and challenges faced by Smart Electronics systems, Electric Drives, Smart Grids, Renewable Energy resources, micro-grids and the interconnection to modern power systems and also the operation of the smart grid models for a smarter and more user and environment-friendly electronics and energy systems. Focus areas of the conferences are smart electronic converters and control systems, Smart Grid, Renewable energy Resources, Distributed networking and Interconnection, Electric vehicles, Energy storage & charging models, Power Quality, Microgrid & Smart grid, Energy policies & Standards, Power electronic models and other related technologies and applications for further development in the broad area of smart electronics and renewable energy systems.

About the College

St. Mother Theresa Engineering College (MTEC) was established in 2009 with the endeavour to bring out social change and development in the vicinity of Thoothukudi. The College is located on Thoothukudi-Tirunelveli National Highway (NH 7A). It is well connected to all the neighbouring towns and is easily accessible by Road, Rail and Air. The College has achieved a marvellous growth since the time of inception with six branches of Engineering and many more in the days to come. Sophisticated class rooms, well equipped laboratories, qualified and dedicated faculty members are contributing to the holistic development of our student community.

Call for Papers

Smart Electronics

- Advanced Sensor Systems for Industrial Automation and Internet of Things (IoT)
- Artificial Intelligence and Machine Learning for Smart Electronics Design and Optimization
- Energy-Efficient Computing Architectures for Wearable and Implantable Devices
- Hardware Security and Privacy Solutions for Smart Electronics
- High-Performance and Reliable Micro/Nano Electronic Systems
- Secure and Trustworthy Electronic Design Automation (EDA)
- Ultra-Low Power Electronics for Sustainable and Extended Battery Life
- Embedded Systems Design for Real-Time and Safety-Critical Applications
- Fault Tolerance and Reliability Techniques for Smart Electronics Systems
- Human-Machine Interface (HMI) Design for Smart Products and Services

Renewable Systems

- Advanced Energy Storage Technologies for Grid Integration and Microgrids
- Artificial Intelligence and Machine Learning for Renewable Energy Forecasting and Optimization
- Smart Grid Technologies for Efficient and Reliable Power Distribution
- Cybersecurity and Cyber-Physical Security for Renewable Energy Systems
- Distributed Generation and Decentralized Energy Management Systems
- Integration of Renewable Energy Sources into Smart Grids
- Advanced Photovoltaic and Battery Technologies
- Concentrated Solar Power (CSP) Technologies and Applications
- Hybrid Renewable Energy Systems for Remote Communities
- Wind Energy System Optimization and Control Strategies

Submission

Venue

Authors, shall submit the full manuscript via email: icears.con@gmail.com

St. Mother Theresa Engineering College
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All registered and presented papers will be submitted for inclusion into IEEE Xplore.

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Registration Fee

Category		IEEE EDS Member	IEEE Member	Non-IEEE Member
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Foreign Participant	Authors	150 USD	160 USD	170 USD
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