

#### Conference Committee

##### Chief Patron

**Dr. S. Manoharan**

Principal,  
JCT College of Engineering and  
Technology,  
Coimbatore, India.

##### Conference Chair

**Dr. K. Geetha**

Dean Academics and Research,  
JCT College of Engineering and  
Technology,  
Coimbatore, India.

##### Guest Editors

- **Dr. S. Manoharan**, Principal, JCT College of Engineering and Technology, Coimbatore, India.
- **Dr. Alexandru TUGUI**, Professor, Al. I. Cuza" University Iasim, Iasi, Romania.
- **Dr. Zubair Baig**, Professor, Deakin University Geelong, Australia.

##### Advisory Committee

- **Dr. Pradeepa P.**, Vice Rector, Sambhram University, Jizzakh, Uzbekistan.
- **Prof. Gianluca Gatto**, Department of EEE, University of Cagliari, Italy.

#### Important Dates

Full Paper Submission Deadline:

18 February, 2024

Acceptance Intimation:

22 March, 2024

Registration Deadline

25 April, 2024

Conference Date

20-21, May 2024

#### Affiliated by



#### About the Conference

Recent years have witnessed the evolution of Artificial Intelligence [AI] techniques like deep learning, machine learning, pattern recognition, Natural language processing [NLP], and computer vision and their revolutionary applications in the emerging smart city and industrial automation applications. In this scenario, AI provides smart and efficient tools for smart energy systems to perform smart electricity generation, emergency response, and delivery. The integration of renewable energy sources into the smart grid is made easier by using Artificial intelligence technologies. Meanwhile, Machine Learning the subset of Artificial intelligence provides some security and privacy assessment tools to the evolving smart energy grids. As Artificial Intelligence [AI] techniques are still remaining in the initial stage to revolutionize the way we generate, transmit and consume the energy in the smart city and industrial infrastructure. It is clearly known that the integration of AI in smart energy models will deliver a wide range of potential research opportunities to the smart energy management community. The main goal of the 5th International Conference on Artificial Intelligence and Smart Energy [ICAIS 2025] organized by Department of EEE, JCT College of Engineering and Technology, Coimbatore, Tamilnadu, India on 30-31, January 2025 is to propose, share and exchange innovative Artificial Intelligence [AI] solutions to enhance the efficiency, stability, robustness, and security of smart energy systems.

#### About the College

JCT COLLEGE OF ENGINEERING AND TECHNOLOGY Shri Jagannath Educational Health and Charitable Trust was established by renowned and philanthropic people with an objective of providing education to all especially the down trodden and rural population. Considering the growing demands for technical education in the country the trust has started an engineering college namely JCT College of Engineering and Technology in Pichanur in Coimbatore for the academic year 2009-10. The College is located at Pichanur at the foothills of the Western Ghats in a serene, eco-friendly lush green environment. It is well connected by road, rail and air. The Management strives hard to enhance the professional knowledge, skills and attitudes of educators, so that they might in turn improve the learning process of students. The college aims at developing a deep understanding of the human values and social concerns among the engineering graduates.

#### About the Department - EEE

The Department of EEE was established in 2010. It offers Undergraduate programme in BE Electrical and Electronics Engineering and also runs prominent Postgraduate programme in ME Power Electronics and Drives, which started from year 2012. In 2018, it achieved the milestone of getting NBA Accreditation. The faculty of this Department elude excellent commitment, and they possess high qualification credentials to provide technical education of utmost standards. The students are offered with Innovative Workshops, Guest lectures, Webinars, National and International Conferences, informative Industrial visits, etc. on a regular basis, to keep them updated with the latest trends in the Electrical and Electronics Engineering. Along with Highly equipped Laboratories, Industry sponsored Laboratories also established which increases the students' knowledge to industry level.

#### Keynote Speakers

**Dr. Zubair Baig**

Deakin University Geelong,  
Australia.

**Dr. Alexandru TUGUI**

Al. I. Cuza" University Iasim  
Iasi, Romania.

**Dr. Fatima Zahra Fagroud**

Université Hassan II de  
Casablanca.  
Morocco.

#### Submission Guidelines

The final prepared paper should be submitted via Email to [conf.icaisee@gmail.com](mailto:conf.icaisee@gmail.com) indicating the Email Subject as "New Manuscript Submission".

#### Call for Papers

##### Artificial Intelligence

Capsule Networks  
Smart Agent-based Systems  
Machine Learning  
Fuzzy based Intelligent Systems  
Evolutionary Computing  
Expert Systems  
Human-Computer Interaction Technologies  
Cognitive Intelligence  
Artificial Immune Systems  
Cyber-Physical Systems  
Artificial Life  
Knowledge-based Systems  
Artificial Neural Networks  
Computational Intelligence  
Neuro-Fuzzy Models and Techniques  
Intelligent Estimation and Classification Models  
Hybrid Intelligence  
Internet of Intelligent Things  
Quantum Computing  
Cyber-Security Models and Techniques  
Reinforcement Learning

##### Smart Systems

Deep Learning based Smart Energy Systems  
Innovative Energy Control and Management Techniques  
AI in Renewable Energy Systems  
Smart Power and Energy Systems  
Active Power Generation Models  
Intelligence Fault Diagnosis and Maintenance Technologies  
Smart Process Monitoring and Control Strategies  
Techniques to Reduce Energy Consumption  
Smart Energy Optimization Techniques  
Neural Estimation for Energy Consumption  
Predictive Control, Planning and Scheduling  
Dynamic Control of Energy Systems  
Distributed Computing and Control in Energy Systems  
Secured and Privacy-preserving analytics for Smart Energy Systems  
Innovation Quantum Computing Processes in Energy Systems

#### CONTACT

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#### VENUE

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Department of EEE  
JCT College of Engineering and Technology  
Coimbatore, India

Conference website: <https://icoaise.com/2025>

