4th International Conference on Artificial Intelligence and Smart Energy
(ICAIS 2024) | 22-23, March 2024

Organized by,
Department of EEE,
JCT College of Engineering and Technology

ICAiS

Springer

Technical Sponsors

Technical Sponsors

SAMBHRAM
UNIVERSITY
JIZZAX, UZ

DIPARTIMENTO DI **INGEGNERIA ELETTRICA ED ELETTRONICA**
DIPARTIMENTO DI **ECCELLENZA MUR 2023-2027** DIEE

UNIVERSITÀ DEGLI STUDI
DI **CA**GLIARI

JCT
ACCREDITED BY
NBA ACCREDITED Engineering 4 Courses PCE | EEE MECH | CSE
NAAC A Grade

COLLEGE OF ENGINEERING AND TECHNOLOGY
AN AUTONOMOUS INSTITUTION
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai & Accredited by NAAC
Pichanur, Coimbatore - 641105 | info@jct.ac.in | www.jct.ac.in | 0422 2636900

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 4th International Conference on Artificial Intelligence and Smart Energy [ICAIS 2024] organized by Department of EEE, JCT College of Engineering and Technology, Coimbatore, Tamilnadu, India on 22-23, March 2024 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.

In 2018, it acheived 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.

ICAiS

Springer

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
- ❑ Distributed 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 algorithms
- ❑ 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

CONFERENCE COMMITTEE

Chief Patron

- ❖ Dr. S. Manoharan, Principal, JCT College of Engineering and Technology, Coimbatore, India.

Program Chair

- ❖ Dr. K. Geetha, Dean Academics and Research, JCT College of Engineering and Technology, Coimbatore, India.

Technical Program Chairs

- ❖ Dr. S. Manoharan, Principal, JCT College of Engineering and Technology, Coimbatore, India.
- ❖ Dr. Alexandru TUGUI, Al. I. Cuza" University Iasim, Iasi, Romania.
- ❖ Dr. Zubair Baig, Deakin University Geelong, Australia
- ❖ Dr. Fatima Zahra Fagroud, Université Hassan II de Casablanca, Morocco.

Workshop Chair

- ❖ Dr. T. Justin Jose, Dean-Research, JCT College of Engineering and Technology, Coimbatore, India.

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.

Advisory Committee

- ❖ **Dr. D. Nirmal, IEEE R10 SRC Vice Chair and IEEE Excom member Madras section, & Professor, Karunya Institute of Technology and Sciences, Coimbatore, India.**

- ❖ **Dr. T. Justin Jose, Dean-Research, JCT College of Engineering and Technology, Coimbatore, India.**

- ❖ **Dr. Nagarajan Velmurugan, IEEE MAS Section - EXCOM Member & Professor, Adhiparasakthi Engineering College, Chennai, India.**

- ❖ **Dr. Alaboudi, Shaqra University, Saudi Arabia.**

- ❖ **Dr. Arunava Chatterjee, Meghnad Saha Institute of Technology, India.**

- ❖ **Dr. Ashish Mishra, Lakshmi Narain College of Technology, India.**

- ❖ **Dr. Pradeepa P., Vice Rector, Sambhram University, Jizzakh, Uzbekistan.**

- ❖ **Prof. Gianluca Gatto, Department of EEE, University of Cagliari, Italy.**

- ❖ **Dr. Amit Kumar, Department of EEE, University of Cagliari, Italy.**

ICAIS

Submission Guidelines

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

Templates :

Authors must prepare their papers using our Microsoft Word or LaTeX2e templates, and then convert these to PDF format for submission:

➢ **Microsoft Word Template:** click here

➢ **LaTeX Zip File:** click here

Registration Guidelines

- ◔ **Indian Participant: 6750 INR**
- ◔ **Foreign Participant: 100 USD**

Key Dates

Full Paper Submission Deadline - 28 January, 2024

Registration Deadline - 13 March, 2024

Conference Date - 22-23, March 2024

Previous Publication : Click here

Venue

JCT College of Engineering and Technology

Pichanur Road, Off NH 47, Pichanur, Coimbatore, Tamil Nadu, India – 641105

Map : Click here

Contact

Email: conf.icaisee@gmail.com

Website: http://icoaise.com/ICAISE 2024

Mobile Number: +91-8754818524

Springer