



# CALL FOR PAPERS

**OCTOBER 13-15 2026 KUWAIT**

## ICAIGE S<sup>4</sup>IoT'26

The 3rd IEEE International Conference on Artificial Intelligence & Green Energy  
CO-LOCATED WITH  
The 3rd Symposium on Smart, Sustainable, and Secure IoT

IEEE ICAIGE'26 is co-located this year with S4IoT'26 to bring together researchers, academics, scientists, and professionals from around the world to present and discuss their latest findings and innovative ideas in the fields of Artificial Intelligence, Green Energy, and IoT. The conferences will feature world-class keynote speakers who will share their expertise and insights on cutting-edge developments, innovations, and future research trends in AI applications, renewable energy conversion and management, electric vehicles, embedded systems, IoT, and related areas. ICAIGE'26 and S4IoT'26 will take place from October 13-15, 2026, at the Kuwait College of Science & Technology (KCST), Kuwait. Researchers are cordially invited to submit their original 6-page research papers. All accepted, registered, and presented papers will be submitted for inclusion in IEEE Xplore, subject to meeting the IEEE's scope and quality standards. We look forward to welcoming you in Kuwait to exchange ideas, foster collaborations, and advance research in Artificial Intelligence, Green Energy, and IoT.

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**ACCEPTED, REGISTERED, AND PRESENTED PAPERS WILL BE SUBMITTED FOR INCLUSION INTO IEEE XPLORE SUBJECT TO MEETING IEEE XPLORE'S SCOPE AND QUALITY REQUIREMENTS**

**ALL PAPERS MUST BE WRITTEN IN ENGLISH AND WILL BE PEER REVIEWED**

### IMPORTANT DATES AND DEADLINES

**PAPERS SUBMISSION (EXTENDED DEADLINE) June 30th, 2026**

**ACCEPTANCE NOTIFICATION: July 31st, 2026**

**CAMERA READY PAPER AND REGISTRATION DEADLINE September 10th, 2026**

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### SCOPE AND TOPICS

#### TRACK 1- ARTIFICIAL INTELLIGENCE AND RELATED APPLICATIONS

- 1.1 Artificial Intelligence for Automation of Energy Systems—Chairs: Francesco Grimaccia, Italy; Olfa Jemai, Tunisia; Azadeh Kermansaravi, Netherlands**  
Energy conversion and management systems; AI in power grids and in electric vehicles; intelligent transportation, IoT-based energy technologies;
- 1.2 Artificial Intelligence for Engineering applications—Chairs: Alamera Alquannah, USA; Hiba Alsmadi, UK; Anis Koubaa, Saudi Arabia; Mohammed Naji, Kuwait; Alfredo Vaccaro, Italy**  
Industry 4.0 and 5.0; load and renewable energy forecasting; machine learning methods for proactive power system control; deep learning and internet of things (IoT); robotic and automation systems; neural networks and fuzzy logic applications; smart agriculture; metaheuristic algorithms; computer vision; big data; enabling technologies for stability enhancement of low-inertia power systems; optimal placement of flexible distributed resources for enhanced grid management; AI-enabled tools for decarbonized power systems operation; AI power demand: data centers as flexible grid sources.
- 1.3 Artificial Intelligence for Biomedical, Bioinformatics and Bioprocess—Chairs: Boudour Ammar, Tunisia; Abdullatif Baba, Kuwait; Mohamed Gaballa, UK**  
AI Biomedical Data Processing, Intelligent Biosignal Processing, AI for healthcare monitoring systems, AI systems for biomedical processing.

#### TRACK 2- RENEWABLE ENERGY AND ELECTRIC VEHICLES

- 2.1 Renewable Energy, Distributed Generation, and Smart Grids—Chairs: Chi-Seng Lam, Macau, China; Sagar Mahajan, Saudi Arabia; Issam Salhi, France; Yijie Wang, China**  
Photovoltaic energy, wind energy, hydroelectricity, wave energy, and other renewable energy sources (RES); distributed generation (DG); smart grids (SG); power quality in RES and smart grids; energy efficiency; energy planning; self-organizing V2G vehicles (EVs) providing grid ancillary services; optimal placement of flexible distributed resources for enhanced grid management.
- 2.2 Power converters and energy storage systems—Chairs: Alfonso Damiano, Italy; Miguel De Simón Martín, Spain; Wesam Rohouma, Qatar; Roberto Saletti, Italy; Imene Yahyaoui, Spain; Xibo Yuan, China**  
Advanced and innovative power converters for RES, DG, SG and EVs: topologies, modeling, control and modulations; hardware-in-the-loop systems and FPGA-based real-time simulation of power converters, DG, SG and EVs; battery modeling; energy storage and battery management systems; topologies, control and management techniques (SoC, SoH, etc.); AI techniques for battery modeling, control and management; decentralized methods for energy storage systems orchestration.

#### TRACK 3- DIGITAL TRANSFORMATION FOR GREEN ENERGY

- 3.1 Cloud-Edge Computing and Digital Twins—Chairs: Jacques Demerjian, Lebanon; Wajih El Hadj Youssef, Tunisia; Jean Sawma, Lebanon**  
Cloud and edge computing architectures for energy systems, Distributed computing for real-time data processing and control, Digital twin modeling, simulation, and synchronization of energy assets; AI-driven predictive analytics and optimization using digital twins; Cybersecurity and interoperability in cloud-edge energy platforms, High-performance computing for large-scale energy data management, Integration of digital twins with control and decision-support systems.
- 3.2 IoT-Enabled Green Energy Systems and Smart Infrastructure—Chairs: Ismael Al Ridhawi, Kuwait; Giancarlo Iannizzotto, Italy; Mohab Mangoud, Bahrain; Aymen Omri, Qatar**  
IoT architectures for renewable and distributed energy systems, Smart grids and intelligent urban energy networks, Wireless sensor networks for monitoring and automation, IoT-based predictive maintenance and fault detection, Integration of renewable energy sources into smart buildings and cities, Data analytics and embedded systems for energy efficiency, Sustainable and resilient operation of industrial and urban infrastructures.

#### TRACK 4- FAULT DIAGNOSIS AND FAULT TOLERANT OPERATION OF RENEWABLE ENERGY SYSTEMS AND ELECTRIC VEHICLES

- Chairs: Hiba Al Sheikh, Lebanon; Shady Khalil, UK; Salim Hadj Said, Tunisia; Bin Zhang, USA; Shen Yin, Norway**  
Fault detection of power converters, electric machines and sensors used in renewable energy systems and electric vehicles; Fault detection of PV modules and wind turbines, Fault tolerant control techniques, Signal processing and machine learning techniques for fault detection and isolation, Aging techniques of power semiconductors

### SPECIAL SESSIONS

**Chairs: Meshari S. Al-Mutairi, Kuwait; Jacques Demerjian, Lebanon; Hady H. Fayek, Egypt; Amit Kumar, Italy; Sobhan Mohamadian, Italy**  
The IEEE ICAIGE26 conference organizers invite interested researchers to submit their proposals for Special Sessions (SS). These sessions are expected to cover emerging and specialized topics within the scope of the conference, while complementing—not overlapping with—the main technical tracks. Special Sessions provide an excellent opportunity for researchers and experts to present recent results, share insights, and foster discussions within focused thematic areas. Once a Special Session proposal is accepted, it will be announced on the conference website, along with the names and affiliations of the organizers. All papers submitted to a Special Session will follow the same peer-review process as regular papers. A Special Session will be included in the final conference program provided that at least five papers are accepted for presentation.



TRACK 1

TRACK 2

TRACK 3

TRACK 4

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