



EEE-AM 2023

2023 IEEE Asia Meeting on Environment and Electrical Engineering Accelerating the Energy Transition

National Convention Center, 57 Pham Hung Road, Me Tri, Nam Tu Liem, Hanoi - VIETNAM
From 13th to 15th November 2023

Conference Record Number #58328

Website https://iee_eeeam.epu.edu.vn/index.html and <https://eeeam.net/eee-am-frontpage/eee-am-2023>

IMPORTANT DATES

Regular Papers

May 1st to June 30th, 2023 FULL PAPER Preliminary Submission
September 15th, 2023 FULL PAPER Acceptance Notification
October 1st, 2023 FULL PAPER Submission

Special Sessions

April 15th, 2023 SESSION Proposal
May 31st, 2023 SESSION Acceptance Notification

Registrations

September 1st, 2023 Early-bird registration
October 1st, 2023 Standard registration

The Asia Meeting on Environment and Electrical Engineering (EEE-AM 2023) is part of the established annual International Conference on Environment and Electrical Engineering (IEEE EEEIC) series and will be organized for the first time in Asia in the beautiful and dynamic city of Hanoi, Vietnam, during 13th to 15th of November 2023. This year's Asia edition of the Conference will focus on the theme "Accelerating the Energy Transition" and will serve as an international forum for the exchange of research, innovations, and development in energy and power systems. The ever-increasing environmental concerns and the intensive international efforts to reduce emissions of greenhouse gases stimulate involved stakeholders to offer their best contributions to accelerate the global energy transition. EEE-AM 2023 provides a unique opportunity for academic researchers to interact with experts from industrial manufacturers and energy utilities and to discuss a wide range of topics related to energy systems and environmental issues. This forum highlights values from cross-continental collaborations in enabling renewable energy diversification and sustainable development.

2023 EEE-AM is technically co-sponsored by IEEE and EMCS and PES, and fully sponsored by IAS. Accepted and presented papers are submitted to IEEE Xplore and will also be submitted for indexing through INSPEC®, EI's engineering information index, COMPENDEX®, and ISI Thomson's scientific and technical proceedings®, ISTP®/ISI proceedings. The Conference proceedings will be indexed by Scopus. Accepted and presented papers will be considered for IEEE Transactions on Industrial Applications.

A. RENEWABLE ENERGY SOURCES AND STORAGE

- + Solar energy and photovoltaic cell technology
- + Hydro and wind energy
- + Biomass and biofuels
- + Battery, hydrogen, and energy storage
- + High-performance cogeneration
- + Diagnostic, aging models, reliability, and lifetime extension
- + Circular economy, eco-design, and components recycling

B. POWER SYSTEMS AND SMART GRIDS

- + Microgrids modeling, simulation, and data management
- + Dynamic, transient, and real-time simulation
- + RAM (reliability, availability, maintainability)
- + EMS, optimization, multi-agent, and distributed control
- + ICT for power systems, clouds, interoperability, cybersecurity
- + Digital transition, AI applications, Big data, and Digital Twin
- + Smart protection and automation
- + Integration and management of RES and storage systems
- + Technologies and processes for flexible and resilient grids

C. CYBER-PHYSICAL ENERGY SYSTEMS

- + Cyber-physical energy systems and multi-energy systems
- + Gas, thermal systems, and power-to-X storage
- + Nuclear energy for the energy transition
- + Energy emergency
- + Industry 4.0 for energy

D. ENERGY EFFICIENT SYSTEMS

- + Demand response, load forecasting
- + Energy efficiency, conservation, and savings
- + Smart metering systems
- + Users aggregation and virtual power plant

G. MATERIALS AND NANOTECHNOLOGY

- + Materials for energy
- + Novel materials for energy harvesting
- + Nanotechnology for renewable energy
- + Applications of NEMS, MEMS for energy

H. ENVIRONMENTAL PHENOMENA AND POLLUTION

- + EM spectrum management
- + Environmental phenomena
- + Pollution and solutions

I. POWER ELECTRONIC AND COMPONENTS

- + Advancements in power electronics for smart grids
- + Converters for microgrids, renewable energies, and storage
- + Power quality and harmonics
- + HVDC, MVDC, and hybrid power systems
- + SiC and GaN

J. MOBILITY

- + Sustainable transport systems
- + Electric vehicles (EVs), charging infrastructure
- + Grid impacts and supports from EVs
- + V2G and V2H

K. MAINTENANCE, OPERATION, SAFETY AND DIAGNOSTIC

- + Designing for Safety, Grounding, Lightning
- + Hazard - Electric shock, arc flash, fire, and explosion
- + Maintenance and operation of power systems
- + Online real-time equipment diagnostic
- + Work practices and procedures, electrical safety training

E. SMART BUILDINGS AND SMART CITY

- + Smart homes, cities, communities
- + Home and building automation
- + Nearly zero energy buildings
- + Information, security, and privacy
- + Lighting systems and components
- + Flexibility

F. CIRCUITS, SENSORS, AND ACTUATORS

- + Circuits and systems theory and application
- + EMC applications and quality
- + Nonlinear systems
- + Signal processing and identification
- + Sensors, smart metering, and actuators
- + Smart circuits
- + Systems modelling

L. MEASUREMENTS

- + Environmental and electrical measurements
- + Advanced instrumentation, data acquisition systems, and SCADA
- + Intelligent distributed systems
- + Signal and image processing

M. REGULATION, POLICY, ELECTRICITY MARKETS, AND STANDARDS

- + Energy policy
- + Utility deregulation
- + Future energy markets, flexibilities valorization, and trading
- + Design, modelling of electricity and ancillary services markets
- + Regulatory issues and standards
- + Generation, distribution, and transmission expansion planning

N. EDUCATION AND TRAINING

- + Training on energy transition
- + Education on energy transition

SUBMISSION PROCEDURE

Authors are invited to submit original papers in the aforementioned areas. Prospective authors should submit their Full Paper (4/6 pages, 2-column in IEEE format) by 1st of May to 30st of June 2023. The papers should clearly explain the originality and the relevance to the fields and should be uploaded in electronic format to the website of the symposium. The guidelines to upload will appear on the website <https://www.eeeam.net/EEE-AM/> and https://iee_eeeam.epu.edu.vn/index.html

All submitted papers will be evaluated by a peer review process. Authors whose papers are accepted for presentation will be requested to provide the finalized full paper by October 1st, 2023, with registration for each submitted paper. For authors from the industry, the typical paper length may be reduced to 3 pages. Poster sessions and special sessions will stimulate more in-depth discussions on some specific and relevant topics.

CALL FOR SPECIAL SESSIONS

Prospective organizers of special sessions should send their proposals via email to the Special Sessions Chairs, Gaetano Zizzo, at the addresses gaetano.zizzo@unipa.it. Special sessions are scheduled for one-quarter day (at most 5 speakers) / one-half day (at most 10 speakers) and are held during the Conference. All special session papers are peer-reviewed through the same process as all the other submitted technical papers.

WORKING LANGUAGE

The working language of the Conference is English, which will be used for all printed material, presentations, posters and discussions.

SYMPOSIUM VENUE

The Conference will be held at **National Convention Center**, 57 Pham Hung Road, Me Tri, Nam Tu Liem, Hanoi, VIETNAM

CONTACTS

Details on the technical program of the Conference, as well as social events and hotel accommodation, available shortly on the conference website https://iee_eeeam.epu.edu.vn/index.html or <https://eeeam.net/eee-am-frontpage/eee-am-2023>. For any query, please do not hesitate to contact the Organising Committee at the following email address: info@eeeic.net or qlkh@epu.edu.vn (for organizing questions) or pc@eeeic.net or hungdv79@epu.edu.vn (for papers and technical questions)



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