

X^{EEEEIC} MMXXIV ROME

CALL·FOR·PAPERS

24TH EEEIC
**International Conference
on Environment
and Electrical Engineering**

08TH I&CPS
**Industrial and Commercial
Power Systems Europe**

June 17TH | 20TH 2024
Rome, Italy
@ Sapienza
University of Rome





The next **24th IEEE EEEIC** edition will be special.
The one hosted in Rome marks the tenth edition of IEEE
EEEIC under the supervision and coordination of the
International Association on Environment
and Electrical Engineering - APS **eeela**.
We are very excited and pleased to come back "home",
and it is a great honor for us to celebrate
this important milestone with the **EEEIC Community**.

10 years together,
10 different international cities,
More than 1500 attendees from all over the world,
along with an equal number of papers presented,
unforgettable moments and shared experiences,
which cannot be counted!

THE · X · HOVR · IS · COMING



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EEEIC·MMXXIV

The 24th IEEE International Conference on Environment and Electrical Engineering is an international forum for the exchange of ideas and information on energy systems. The Conference provides a unique opportunity for designers and people from industry to interact with manufacturers, energy utilities people and university researchers and to discuss a wide variety of topics related to energy systems and environmental issues. The ever increasing awareness of the environmental concerns and the intensive international efforts to reduce emissions of greenhouse gases stimulate to offer the best contributions towards achieving the goals of renewable energy diversification and sustainable development. IEEE EEEIC 2024 is the 24th edition of the Conference, one of the European largest, longest-running, professional networking and educational event. The conference has been technically co-sponsored by IEEE since 2008 and by EMCS, IAS and PES since 2015.

TECHNICAL·AREAS

A RENEWABLE·ENERGY SOURCES·AND·STORAGES

- Solar energy
- Photovoltaic cell technology
- Hydro and wind energy
- Biomass and biofuels
- Energy management and storage
- High-performance cogeneration

B POWER·SYSTEMS·AND SMART·GRIDS

- Microgrids modeling, simulation and data management
- Design, control and management
- Protection
- Transmission grids
- RAM (reliability, availability, maintainability)
- ICT for power systems
- Power line communications
- Power quality

C ENERGY·EFFICIENT·SYSTEMS

- Renewable energy, wind, solar, fuel cells, distributed generation within microgrids
- Demand side management
- Load forecasting
- Energy efficiency, conservation and savings
- Smart metering systems
- Supervisory control and data acquisition systems SCADA
- Users aggregation and virtual power plant

I&CPS·EVROPE

The 8th IEEE Industrial and Commercial Power System Conference Europe (I&CPS Europe) is the eighth edition of a conference organized by the department I&CPS of the Industry Application Society (IAS-IEEE). The scope of the Industrial and Commercial Power Systems Department includes all matters within the scope of the Industry Application Society relating to the technology of electric power generation, transmission or distribution in industrial, commercial and institutional facilities, and within that segment of industry associated specifically with rural or agricultural applications. The scope also includes the creation of related technical standards governing such applications. The objective of I&CPSD shall be the advancement of the theory and practice of engineering as it relates to design and management of electrical power systems and comfort conditioning systems within industrial plants, commercial buildings and institutional facilities and electrical power systems that serve primarily agricultural areas.

D SMART·BUILDINGS

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

E CIRCUITS·SENSORS·AND ACTUATORS

- Circuits and systems theory & application
- EMC applications
- Nonlinear systems
- Signal processing and identification
- Sensors and actuators
- Smart circuits
- Systems modelling

F MATERIALS

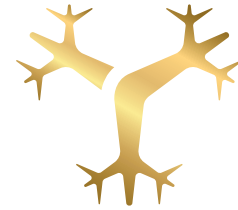
- Nanotechnology for renewable energy
- Novel materials for energy harvesting

G ENVIRONMENTAL PHENOMENA·AND·POLLUTION

- EM spectrum management
- Power quality and harmonics

H POWER·ELECTRONICS AND·COMPONENTS

- Electrical generators
- Converters for microgrids
- Converters for renewable energies
- Converters for storage
- Low-frequency EMC



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I REGULATION·AND ELECTRICITY·MARKETS

- Utility deregulation
- Regulatory issues and delivery standards
- Dispatching in power systems
- Generation and transmission expansion
- Distributed generation and distribution system

L MOBILITY

- Sustainable transport systems
- Electrical vehicles
- Automotive

M MAINTENANCE, OPERATION AND SAFETY

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

N MEASUREMENTS

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

GENERAL INFO

IEEE EEEIC24 + I&CPS Europe will be held from **June 17th to 20th 2024** in Rome (Italy) - hybrid mode.

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 have been also indexed by Scopus since 2010.

- ▶ The conference will be held in person ⁽¹⁾
- ▶ Remote sessions with special fees will be available in case of difficulty in attending in person and for developing countries according to IEEE policies
- ▶ Accepted and presented papers are published on IEEE Xplore, and indexed through SCOPUS index ⁽²⁾
- ▶ I&CPS Europe is the only conference sponsored by IAS in Europe and therefore all the accepted and presented papers will be considered for IEEE Transactions on Industry Applications

⁽¹⁾ In the unfortunate event of new pandemic restrictions the conference will be changed to online

⁽²⁾ EEEIC Conference is indexed by IEEE Xplore, SCOPUS since 2010 and by Web of Science (THOMSON REUTERS Conference Proceedings Citation Index) since 2013

SVBMISSION PROCEDURE

Authors are invited to submit original papers in the areas aforementioned. Prospective authors should submit a preliminary full paper (4/6 pages, 2-column in IEEE format) by **February 29th 2024**.

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 official website www.eeeic.net.

All submitted abstracts will be evaluated by a peer review process. Authors whose papers are accepted for presentation will be requested to provide the final full paper by **April 15th 2024** combined with a registration for each submitted paper.

For authors from industry 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: **Fabio Bisegna** (fabio.bisegna@uniroma1.it) **Gaetano Zizzo** (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.

CONTACTS·INFO

Details about the conference technical program, as well as social events and hotel accommodation, will be available shortly on the official conference portal www.eeeic.net

For any query, please do not hesitate to contact the Organising Committee at the following e-mail address:
info@eeeic.net (for organizing questions)
pc@eeeic.net (for papers and technical issues).

FULL·PAPER

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|--------------------------|---------------------------------|
| PRELIMINARY·SVBMISSION▶ | FEBRUARY 29TH |
| ACCEPTANCE·NOTIFICATION▶ | MARCH 31ST |
| FINAL·SVBMISSION▶ | APRIL 15TH |

SPECIAL·SESSION

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|--------------------------|---------------------------------|
| PROPOSAL▶ | JANUARY 31ST |
| ACCEPTANCE·NOTIFICATION▶ | FEBRUARY 15TH |

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| EARLY·BIRD·REGISTRATION·END▶ | APRIL 15TH |
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