



EEEIC 2020

MADRID | SPAIN | From 09TH to 12TH JUNE 2020

20TH EEEIC

INTERNATIONAL CONFERENCE
ON ENVIRONMENT AND ELECTRICAL ENGINEERING

04TH I&CPS

INDUSTRIAL AND COMMERCIAL
POWER SYSTEMS EUROPE

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The **20TH IEEE International Conference on Environment and Electrical Engineering (IEEE EEEIC2020)** 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 EEEIC2020 is the 20th edition of the Conference and is 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.

The **4TH IEEE Industrial and Commercial Power Systems Conference Europe (I&CPS Europe)** is the fourth 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.

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.

EEEIC2020 and I&CPS Europe is a conference full sponsored by IEEE / IAS*:

Accepted and presented papers will be considered for IEEE Transactions on Industrial Applications.

The best papers will be selected by a technical committee for publication in the Journals: MDPI Energies, MDPI Sustainability and Springer International Journal of Energy and Environmental Engineering.

* UNIQUE IN EUROPE

TECHNICAL AREAS

A RENEWABLE ENERGY SOURCES AND STORAGE

- + 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

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 and 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

- + 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

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

SUBMISSION PROCEDURE

Authors are invited to submit original papers in the areas aforementioned. Prospective authors should submit their Full Paper (4/6 pages, 2-column in IEEE format) by **February 1st, 2020**. 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 <http://eeeic.eu/>.

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, 2020** 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 topic.

CALL FOR SPECIAL SESSIONS

Prospective organizers of special sessions should send their proposals via email to the Special Sessions Chairs, Fabio Bisegna and Gaetano Zizzo, at the addresses fabio.bisegna@uniroma1.it, gaetano.zizzo@uniroma1.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 in Madrid (Spain) at **Madrid - Puerta de Toledo Campus of University Carlos III de Madrid** (<https://www.uc3m.es/about-uc3m/campuses/puerta-de-toledo-campus/>). The conference venue is an outstanding Campus located in the heart of Madrid close to the most important attractions of the city and well-served by trains and underground lines (how to get here, <https://www.uc3m.es/about-uc3m/how-to-get-here/madrid-puerta-de-toledo>). The venue is also located a few steps from the city Historic Centre (one of the most extended centers of Europe) that unexpectedly end up in small squares, beautiful churches and astonishing historical palaces. The first half of June is the best period to visit Madrid due to the climate, usually warm and sunny. Early hotel reservations are very recommended. A list of suggested accommodations, close to the conference venue, will be published on the conference website.

CONTACTS

Details on the technical program of the conference, as well as social events and hotel accommodation, will be available shortly on the conference website www.eeeic.eu and 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) or pc@eeeic.net (for papers and technical questions)

IMPORTANT DATES!

- + DEC 15TH 2019 SPECIAL SESSION Proposal
- + DEC 31ST 2019 SPECIAL SESSION Acceptance Notification
- + FEB 1ST 2020 FULL PAPER Preliminary Submission
- + APR 1ST 2020 FULL PAPER Acceptance Notification
- + APR 15TH 2020 FULL PAPER Submission

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