



**20<sup>th</sup> IEEE International Conference on Environment and Electrical Engineering  
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4<sup>th</sup> Industrial and Commercial Power Systems – Europe**



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**Madrid-Puerta de Toledo Campus - University Carlos III de Madrid**

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**IMPORTANT DATES**

- Dec. 15, 2019: Special Session Proposal**
- Dec. 31, 2019: Special Session Acceptance Notification**
- Feb. 1, 2020: Preliminary Full Paper Submission**
- Apr. 1, 2020: Acceptance Notification**
- April 15, 2020: Full Paper Submission**

**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

**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

**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

**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



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