12th edition





CALLFOR PAPERS

n recent years, interrelationships among energy and transportation infrastructures, telecommunications and computing technologies, are growing at a fast pace to provide further intelligence to vital technological systems. The ever-increasing dependence on electricity as a flexible energy carrier, the need for an intelligent and sustainable management of grids and decarbonization through electrification are creating tight interdependent energy systems. Big data, machine-learning applications, cloud computing and large bandwidth interconnections yield an accelerated technological progress, which supports the modern knowledge-based society paradigms and a revolution in the electrical sector.

AEIT 2020 will be an international forum on the scientific and industrial challenges of the near future aiming to stimulate innovative entrepreneurial initiatives and increase competitiveness.

In light of the escalating spread of the Coronavirus (Covid-19) around the world, AEIT has decided to have a virtual conference: technical sessions will be virtually held and speakers and attendants will be worldwide connected.



SUBMISSION OFPAPERS

The working language of the conference is English. Submit the full paper (six pages) as PDF following the IEEE layout requirements by using the templates given at the conference web page: https://convegni.aeit.it/AEIT2020 via EDAS. The full paper should contain a complete description of the proposed technical contribution along with some results, suitably framed in the related state of the art. Each paper will be reviewed in terms of relevance with respect to the scope of the event, originality and quality of the technical content, overall organization and writing style.

Authors will be asked to record their presentation. The presentation has to be submitted with the final paper: details will be available on the conference website.

Conference content will be submitted for inclusion into IEEE Xplore as well as other Abstracting and Indexing (A&I) databases.

The best contributions will be considered for publication with a discounted rate in L'Energia Elettrica Supplement, peer-reviewed open access journal indexed in Scopus.

Topics of interest include but are not limited to:

- Automotive
- Bioengineering & Healthcare
- Broadband Communications
- Cloud and Hybrid Systems
- Cyber-Physical Systems
- Cyber-Security
- Diagnostics
- Electrical Machines & Drives
- Electromagnetic Models & Simulation
- Energy Efficiency
- Energy Storage
- Industry 4.0 and Digital Innovation
- Internet of Things
- Measurements and Instrumentation
- MEMS & Smart Sensors
- Mobility and Electric Transportation
- Multi-carrier energy systems
- Nanoelectronics
- Photonics
- ◆ Power Electronics
- Power System Analysis and Control
- ♦ Power to X (P2X)
- Renewable Energy Sources
- Robotics and Artificial Intelligence
- Service Continuity and Safety Management
- Smart Cities
- Smart Grids
- Software Defined Networks (SDN) and SW Virtualization
- Sustainability
- Telecommunications Services
- Transmission & Distribution of Electricity

Special Sessions

The conference will include Special Sessions on highly specialized topics reporting technical trends and breakthroughs within the scope of the conference. Special Sessions will also include a Session dedicated to *Electrical Engineering during the 2020 COVID-19 Pandemic: Impacts, Solutions and Perspectives* and a Session dedicated, as usual, to the innovation in the AEIT fields of interest fostered by Start Ups.

Tutorials

AEIT2020 will include a number of Tutorials on cutting edge technologies related to the conference topics. Therefore, the Organizing Committee invites outstanding researchers in respective area to propose tutorials to be presented during the conference. Proposals should include: title, name of instructor(s), a 500 word (max) abstract, a detailed list of topics, instructor's CV, a list of most relevant papers published by instructor(s) in the area of tutorial. A template is available in the conference website.

Best Student Paper Award

The best Contribution from Students and Graduates in recent years submitted to the conference will be rewarded.

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Sheldon Williamson • Canada

Xinghuo Yu • Australia

Dario Zaninelli • Italy

Zhen Zhang • China

Important Dates

Special Session proposal: **May 31, 2020**Tutorial proposals submission: **May 31, 2020**

Paper submission: June 20, 2020

Student Contest Paper Submission: June 20, 2020

Acceptance notification: July 5, 2020

Final Manuscript and Presentation: July 15, 2020

Secretariat

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