

112th edition

AEIT
2020

International

Annual Conference

1st Virtual Edition - 23-25 September 2020

**VIRTUAL
CONFERENCE**

AEIT
1897

CALL FOR PAPERS

In 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.

Organised by



Technical sponsorship of



SUBMISSION OF PAPERS

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://convegnae.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.

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

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.

Executive Committee

Debora Stefani ◆ AEIT General President, General Chair, Italy
Massimo La Scala ◆ Technical Program General Chair, Italy
Roberto Caldon ◆ Technical Program Chair, Italy
Angelo Raciti ◆ Technical Program Chair, Italy
Adamo N. Panzanella ◆ Logistics Chair, Italy
Gianfranco Veglio ◆ Finance Chair, Italy

Young Committee

Alessandro Bosisio ◆ Italy
Giulia Cifalinò ◆ Italy



Technical Committee

Haitham Abu-Rub ♦ Qatar
Ahmed Al Durra ♦ United Arab Emirates
Kamal Al-Haddad ♦ Canada
Romano Ambrogi ♦ Italy
Vincenzo Antonucci ♦ Italy
Ebrahim Babaei ♦ Iran
Marco Baldi ♦ Italy
Federico Baronti ♦ Italy
Radu Bojoi ♦ Italy
Silverio Bolognani ♦ Italy
Sergio Bruno ♦ Publication Chair, Italy
Concettina Buccella ♦ Italy
Giuseppe Cafaro ♦ Italy
Giovanni Cancellieri ♦ Italy
Claudio Canizares ♦ Canada
Ermanno Cardelli ♦ Italy
Carlo Cecati ♦ Italy
Vittorio Cecconi ♦ Italy
Hsiao-Dong Chiang ♦ USA
Maria Gabriella Cimoroni ♦ Italy
Ilhami Colak ♦ Turkey
Stefania Conti ♦ Italy
Loredana Cristaldi ♦ Italy
Francesco Cupertino ♦ Italy
Alfonso Damiano ♦ Italy
Enrico De Tuglie ♦ Italy
Andrea Del Pizzo ♦ Italy
Maria Dicorato ♦ Italy
Alessandro Ferrero ♦ Italy
Mark Flanagan ♦ Ireland
Nuno Manuel Garcia dos Santos ♦ Portugal
Kumarkutti Gopakumar ♦ India
Fei Gao ♦ France
Giorgio Giacinto ♦ Italy
Giorgio Graditi ♦ Italy
Samuele Grillo ♦ Italy
Yousef Ibrahim ♦ Australia
Antonio Imbruglia ♦ Italy
Mariano Ippolito ♦ Italy
Hassan Abdullah Khalid ♦ Qatar
Morgan Kiani ♦ USA
Peter Kieseberg ♦ Austria
Peter Korondi ♦ Hungary
Regina Lamedica ♦ Italy
Roberto Langella ♦ Italy
Michael Lentmaier ♦ Sweden
Marco Liserre ♦ Germany
Lucia Lo Bello ♦ Italy
Stefano Massucco ♦ Italy
Constandinos Mavromoustakis ♦ Cyprus
Rosario Miceli ♦ Italy

Dan D. Micu ♦ Romania
David Mitchell ♦ USA
Giovanni Muscato ♦ Italy
Salvatore Musumeci ♦ Italy
Carlo Alberto Nucci ♦ Italy
Roberto Oboe ♦ Italy
Kiyoshi Ohishi ♦ Japan
Peter Palensky ♦ The Netherlands
Mario Paolone ♦ Switzerland
Grigoris K. Papagiannis ♦ Greece
Giuseppe Parise ♦ Italy
Salvatore Pennisi ♦ Italy
Andrea Penza ♦ Italy
Giuditta Pisano ♦ Italy
Massimo Pompili ♦ Italy
Akshay Rathore ♦ Canada
Christian Rethanz ♦ Germany
Gerasimos Rigatos ♦ Greece
Santi Agatino Rizzo ♦ Italy
Joel Rodrigues ♦ Brazil
Giovanni Schembra ♦ Italy
Pierluigi Siano ♦ Italy
Domenico Stefanelli ♦ Italy
Thomas Strasser ♦ Austria
Guillermo Suarez de Tangil ♦ United Kingdom
Bernardo Tellini ♦ Italy
Giuseppe Marco Tina ♦ Italy
Azhar Ul-Haq ♦ Pakistan
Varadarajan Vijayakamur ♦ India
Domenico Villacci ♦ Italy
Jie Wang ♦ China
Yijie Wang ♦ China
Sheldon Williamson ♦ Canada
Xinghuo Yu ♦ Australia
Dario Zaninelli ♦ Italy
Zhen Zhang ♦ China

Important Dates

Special Session proposal: **April 30, 2020**
Tutorial proposals submission: **April 30, 2020**
Paper submission: **May 24, 2020**
Acceptance notification: **June 21, 2020**
Final Manuscript and authors' registration: **July 15, 2020**

Secretariat

AEIT Ufficio Centrale - Via M. Macchi 32 - 20124 Milano
Tel. +39 02 87389965
E-mail: convegnoannuale@aeit.it
Web Site: <https://convegni.aeit.it/AEIT2020>