

FIRST ANNOUNCEMENT AND CALL FOR ABSTRACTS

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www.intelec2018.org

Announcement

INTELEC® is an international annual technical conference which, for the past thirty-nine years, has been the premier forum for the science and engineering of Information and Communications Technologies (ICT) energy systems.

Research and technical papers explore the needs and trends in the subject areas of power conversion, highly available and resilient



mission-critical power infrastructure and energy storage. Topics include DC power plants, power architectures, converters, inverters, batteries, renewable and alternative power sources, grounding, physical and thermal designs, microgrids and building and equipment cooling systems.

The 2018 conference will be held from October 7th to October 11th in Torino, Italy at the Lingotto Conference Centre.



Preliminary agenda

The theme of the conference is:

**40 years of Inspiration, Research and Exploration
in Power and Energy for ICT.**

The conference program will include keynote and invited speakers' plenary lectures, parallel sessions with oral communications, poster presentations, workshops and tutorials.

Sunday, October 7th

- tutorials
- welcome cocktail reception

Monday, October 8th

- opening ceremony
- plenary and parallel conference sessions
- exhibition welcome cocktail reception

Tuesday, October 9th

- plenary and parallel conference sessions (morning)
- half-day tours (afternoon)

Wednesday, October 10th

- plenary and parallel conference sessions
- gala dinner

Thursday, October 11th

- plenary and parallel conference sessions
- closing ceremony



Call for abstracts

TOPICS

The scope of the conference will include but is not be limited to the following energy system topics:

• Power Systems for ICT

Hybrid and renewable energy generation

Power systems (high and or low voltage DC and AC) for communication equipment and data centres

400V DC power systems

Power distribution architectures for ICT equipment

Power infrastructures for IoT systems

Power infrastructure for 5G networks

Outside plant power systems

Wireless power transfer for communication devices

• Energy Storage for Communications Systems

Energy Storage for Communications Systems

Architectures for energy storage Innovative chemical, mechanical and thermal energy storage systems

Battery technology, modelling, monitoring and life-cycle cost analysis

Flow battery technology

Energy management techniques

Modelling and simulation of energy storage systems

• Power Conversion for Communications Equipment

Circuit topologies and control techniques for AC/DC, DC/DC and DC/AC power converters

New devices based power converters and systems

Inverters for ICT systems

High efficiency and high power-density supplies

• Site Support Systems

Resilience; disaster recovery, planning and mitigation

Non grid power sources for ICT equipment

Physical and thermal design

Grounding and EMC

Codes, standards, and specifications

• Electrical and thermal energy management and monitoring

Energy management for ICT offices and data centres

Energy management systems in building and facilities

Equipment and Building cooling systems

Energy systems modelling and simulation

SUBMISSION INFORMATION

- A digest that accurately reflects the content of the proposed technical paper must be submitted no later than 15th April, 2018
- The digest must include all the information considered necessary to evaluate the technical merit of the paper and should be a minimum of 500 words, not to exceed 1500 words, and may include up to 2 figures. The topic area of the paper should be included in the submission.
- **Digests are to be submitted electronically via the online submission system at: www.intelec2018.org**

- Acceptance letters will be emailed to authors by 20th May, 2018 and accepted manuscripts are due no later than 29th July, 2018.
- The accepted manuscripts will be included in the conference proceedings that will be available at the conference and they will be indexed in IEEExplore. The length of the final papers must not exceed eight single-spaced, double-column typewritten papers, tables and figures included. Specific instructions regarding manuscript formatting will be made available to those authors whose digests have been selected.
- Papers will not be accepted if they include commercial advertising or product endorsements.
- Official language of the conference (digests, manuscripts, oral and poster presentations) will be English.
- All the accepted papers will be presented in oral or poster sessions.
- Authors are required to register for the conference and present their work in the assigned session.
- Special student sessions will be organized by the conference to encourage students to present their work.

Call for special sessions

INTELEC 2018 is also accepting proposals for workshop or special session presentations.

Deadline for proposal submission: **15th April, 2018**

Send your special session proposal to intelec2018@symposium.it

Exhibiting and support opportunities

Attracting about 500 scientists, engineers, product and project managers, researchers and practitioners in the field of energy for ICT from all over the world, INTELEC will provide an important forum for companies to showcase their latest advances, ideas, technologies, products and services. The conference includes various levels of support and diverse promotional solutions for all budgets. Companies will have a rare opportunity to showcase their organization to some of the most influential individuals in the field.

INTELEC provides an excellent forum for ICT companies' marketing and educational needs.

For more information, please contact the conference local secretariat (intelec2018@symposium.it)

The hosting city, Torino

Roman castrum, medieval town, first capital of Italy. Torino offers a lasting memory of castles, old beautiful palaces, royal residences, museums and monuments.

Torino is one of the cultural leading cities in Italy.

The city's lively cultural scene includes music, theatre, visual arts, photography, film, design, dance and heritage as well as a wide choice of museums, 46 in town, such as the world famous Egyptian Museum, the beautiful Galleria Sabauda with Italian and Flemish painting collections, the Automobile Museum, the Modern Art Gallery, the Rivoli Museum of Contemporary Art, the National Cinema Museum with its unique interactive approach.



Torino offers both luxury and characteristic shops. Most of the luxury shops are located in the city centre on via Roma: fashion boutiques, jewelry shops, perfume shops and food and wine stores which feature the best of the regional products. Then, there are the characteristic shops in the little alleys of the inner city, full of cafes and craft shops. Torino is one of the undisputed world capital of taste. It has always boasted a renowned food and wine tradition. The region's extraordinary cuisine can be enjoyed in over 600 city restaurants. Torino is also renowned for the ability of its pastry cooks.

There are also hundreds of excursion opportunities around Torino: the Alps, the lakes, the artistic cities and villages, the golf courses, the wine and food tours.

More information at www.turismotorino.org

Don't miss the deadlines!

Abstract submission:
15th April, 2018

Notification of acceptance:
20th May, 2018

Final paper submission:
29th July, 2018

