

Call for Contributions

Note: Onsite and Online Options

In order to accommodate a large number of situations, we are offering the option for either physical presence or virtual participation. We would be delighted if all authors manage to attend in person, but are aware that special circumstances are best handled by having flexible options.

Submission:

1. Inform the Chair: with the Title of your Contribution

2. Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ENERGY+2020+Special>

Please select Track Preference as **SEA**

Special track

SEA: Smart Energy Applications

Chairs and Coordinators

Prof. Daniele Jahier Pagliari, Politecnico di Torino, Italy

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along with

ENERGY 2020, The Tenth International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies

<https://www.iaria.org/conferences2020/ENERGY20.html>

September 27 - October 01, 2020 - Lisbon, Portugal

Smart energy systems are key enablers for achieving an intelligent and efficient use of energy. Their primary goal is to obtain a more efficient exploitation of energy sources, especially renewable ones, in order to reduce global emissions and provide a greener and more sustainable energy supply chain. To this end, smart, safe and efficient energy systems are needed throughout the whole distribution chain, from generation and storage to consumption.

A smart management of energy is only achieved by the combination of several cooperating systems, each fulfilling a specific task. A non-comprehensive list includes: real-time monitoring of energy consumption and carbon footprint (through smart meters), energy balancing and management for safety and efficiency among neighboring nodes in the grid (at the level of building or district), predictive identification of upcoming faults due to aging components, efficient integration of (possibly distributed) renewable sources, etc.

This special track has the purpose of exploring the latest developments in smart energy systems design and applications, including all the aforementioned elements, with a particular focus on ICT infrastructures and algorithmic optimizations.

Topics include, but not limited to:

- Algorithms and Systems Architectures for Smart Grids Management and Optimization
- Optimization Algorithms for Renewable Energy Sources (PV Panels, Wind Turbines, etc.)
- Energy Optimizations for Electric Vehicles (EVs)

- Machine Learning/Artificial Intelligence Algorithms for Smart Energy/Smart Grids
- Non-Intrusive Load Monitoring (NILM) Solutions
- Smart Meter Security and Privacy Solutions
- ICT Infrastructures for Building/District Level Smart Energy Management
- etc.

Important Datelines

Submission: July 3, 2020

Notification: July 23, 2020

Registration: August 2, 2020

Camera ready: August 2, 2020

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.aria.org]
- Presentations: slide only [slide-deck posted on www.aria.org]
- Demos: two pages [posted on www.aria.org]

Paper Format

- See: <http://www.aria.org/format.html>

- Before submission, please check and comply with the editorial rules: <http://www.aria.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.ariajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

<https://www.ariasubmit.org/conferences/submit/newcontribution.php?event=ENERGY+2020+Special>

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.aria.org/registration.html>

Contact

Chairs

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