

Call for Contributions

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

2. Submission URL:

<https://www.ariasubmit.org/conferences/submit/newcontribution.php?event=ENERGY+2023+Special>

Please select Track Preference as **PSC**

3. Note: *For 2023, all events will be held in a hybrid mode: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.*

Special track

PSC: Advanced Power Systems Computations for Modern Power Grids

Chair

Dr. Amritanshu Pandey, Assistant Professor, University of Vermont, USA
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along with

ENERGY 2023: The Thirteenth International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies

<https://www.aria.org/conferences2023/ENERGY23.html>

March 13 - 17, 2023 - Barcelona, Spain

The power grid is changing rapidly due to electrification and decarbonization. While critical to meet climate goals, these changes bring forth new challenges primarily due to the stochastic nature of new grid resources, rapid electric load growth, switch to inverter-based resources, and increasing automation.

Advanced power systems computations are necessary to tackle these challenges while operating and planning the future power grid. In light of the needed advancements in power systems computation, we call forth experts to present their new research on the subject and discuss how their research tackles the challenges of the rapidly evolving electric grid. A set of sub-topics that are encouraged for submission in this track are listed below.

Contribution topics include, but are not limited to:

- Electromagnetic transient simulation;
- Large-scale steady-state simulation and optimization for power grids;
- Physics-inspired machine learning methods for power grids;
- Grid cybersecurity focused analysis.

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]

Important Datelines

Inform the Chair or Coordinator: As soon as you decide to contribute

Submission: January 26, 2023

Notification: February 13, 2023

Registration: February 23, 2023

Camera-ready: February 23, 2023

Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chair.

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+2023+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

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