

Call for Contributions

Submission:

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

2. **Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ENERGY+2018+Special>

Please select Track Preference as **HPC4E**

Special track

HPC4E: High Performance Computing for Energy

Chairs and Coordinators

Dr. Rafael Mayo-García, CIEMAT, Spain

rafael.mayo@ciemat.es

Dr. José M^a Cela, BSC-CNS, Spain

josem.cela@bsc.es

Dr. Alvaro LGA Coutinho, COPPE-UFRJ, Brazil

alvaro@coc.ufrj.br

along with

ENERGY 2018, The Eighth International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies

May 20, 2018 to May 24, 2018 - Nice, France

<http://www.iaria.org/conferences2018/ENERGY18.html>

This special track aims to be a forum in which new exascale HPC techniques to energy industry simulations are presented. Energy production and supply has become one of the major societal challenges and new exascale developments are a must in order to enhance the way in which energy sources work. In this sense, intensive numerical simulations and prototyping are needed to assess their real value and improve their throughput.

The topics addressed by ENERGY2018 and HPC4E can be directly applied to different domains, so the audience on the main conference will also find transversal solutions in this special track that will be of interest to them regarding Energy, Computer Science, and other scientific and technological domains.

HPC4E is proposed by the community forming the High Performance Computing for Energy initiative (<https://hpc4e.eu/>), which is co-founded by the European Commission and the Brazilian National Council for Scientific and Technological Development. This project was launched in 2016 and is expected to be followed by a second phase starting on 2018.

Prospective authors are invited to submit original papers on topics including, but not limited to:

- Information Technology:
 - Disruptive exascale computer architectures and simulators,
 - Solvers for exascale computations,
 - Scientific codes.
- Energy:
 - Wind energy,
 - Oil&gas,
 - Combustion,
 - Biomass,

- Fusion,
- Fission,
- Materials for energy,
- Geothermal energy,
- Photovoltaic,
- Concentrating solar power,
- etc.

Important Datelines

- Inform the Chairs: As soon as you decided to contribute
- Submission: February 7, 2018
- Notification: March 7, 2018
- Registration: March 21, 2018
- Camera ready: April 2, 2018

Note: These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.

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.iaaria.org]
- Presentations: slide only [slide-deck posted on www.iaaria.org]
- Demos: two pages [posted on www.iaaria.org]

Paper Format

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

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaariajournals.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

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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.iaaria.org/registration.html>

Contacts

Chairs: Rafael Mayo-García, rafael.mayo@ciemat.es

José M^a Cela, BSC-CNS, josem.cela@bsc.es

Alvaro LGA Coutinho, alvaro@coc.ufrj.br

ENERGY logistics: steve@iaaria.org