



SOFA Conferences 27-29 November 2020 - Arad (Romania)

Exclusive on-line



Special Session: *Soft Computing & AI Techniques in Power Engineering*

Important Dates:

- Submission of full papers: 15 November 2020;
- Notification of acceptance: 20 November 2020;
- Submission of final paper and early payment: 25 November 2020.

Scope:

This special session aims to bring together researchers to share, review and discuss most recent developments in Power Engineering (methods, algorithms and techniques). Hopefully, these discussions will open a debate on new opportunities and new challenges in the area, unifying the efforts toward the development of new adequate tools, protocols and databases for evaluating and monitoring the progress in area of interest.

Topics:

- **Computational intelligence methods for power engineering:** neural networks, vector support machines for energy prediction;
- Evolutionary based bio-inspired algorithms, swarm intelligence-based bio-inspired algorithms, ecology-based bio-inspired algorithms and multi-objective bio-inspired algorithms;
- **Fuzzy multiple criteria decision-making (FMCDM) for power engineering:** fuzzy TOPSIS, AHP/ANP, fuzzy comprehensive evaluation method for energy issues;
- **Smart grids:** distributed generation, renewable sources integration with grid, demand response, advanced metering infrastructure, smart grid cyber security, smart grid communications;
- **Computational sustainability:** computational methods for a sustainable energy and environment;
- **Smart Electricity Metering;**
- **AI based software tools for power systems analysis and optimization:** OPF, state estimation, stability;
- **AI based transmission & distribution networks static and dynamic expansion planning;**

Publication:

- All accepted papers of SOFA 2020 will be published by Springer, Advances in Intelligent Systems and Computing (ISSN 2194-5357);
- The books of this series are submitted to ISI Proceedings, SCOPUS, EI-Compendex, DBLP, Google Scholar and Springerlink.

For more information visit: <https://www.sofa-org.eu/2020/dates-deadlines/>

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