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Near-Optimal Operation of Distributed Energy Resources Based on Microgrids

Guest Editor:

Dr. Yixin Liu
School of Electrical and Information Engineering, Tianjin University, Tianjin 300072, China

Deadline for manuscript submissions:
3 January 2025

Message from the Guest Editor

Distributed energy resources are currently being deployed on a large scale to meet the requirements of increased energy demand and achieve socio-economic benefits for sustainable development. The integration of such distributed energy sources into the utility grid paves the way for microgrids, which are considered self-sustained systems for the efficient integration and management of distributed energy sources and multiple types of loads.

This Special Issue aims to present and disseminate the most recent advances related to the theory and application of near-optimal operation of distributed energy resources based on microgrids.

Topics of interest for publication include, but are not limited to, the following:

- Distributed resource aggregation and planning;
- Electricity market design for the efficient integration and management of distributed energy sources;
- Advanced optimization theory for microgrids planning and operations;
- Advanced optimization theory for active distribution networks with large-scale distributed energy sources;
- Grid-forming technologies for distributed energy sources and microgrids.

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Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Journal Rank: CiteScore - Q1 (Control and Optimization)

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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