Special Issue

Virtual Power Plants: ICT-Based Control and Optimization

Message from the Guest Editors

The topics may include, but are not limited to, the following:

- Advancements in the architectural model of the future-generation virtual power plant;
- VPP communication protocol and network security;
- ICT-based innovative energy management for VPP;
- ICT-based demand response management of VPP;
- Data analytics for VPP;
- Big data management and control;
- Critical design issues of VPP;
- Intelligent and modern control design for VPP;
- Machine learning and artificial intelligence technologies for VPP;
- Advancing grid-forming inverter technology for VPP;
- Software development and management for VPP;
- Networked communication of VPP;
- Operational flexibility and scalability of VPP;
- Market modeling and social benefits of VPP;
- Emerging technologies for VPP.

Guest Editors

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Prof. Dr. Frede Blaabierg

Deadline for manuscript submissions

closed (31 October 2021)



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About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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