Special Issue

Emerging Technologies and Advanced Controls in Renewable-Energy-Based Power Generation Systems

Message from the Guest Editor

This Special Issue of *Energies* is intended to motivate further research on the applications of advanced methods and control algorithms in renewable-energy-based power generation plants. The topics of interest include but are not limited to:

- Advanced methods to renewable system design and modeling;
- Advanced and machine learning control algorithms;
- Control and management of storage system;
- Optimal management of energy sources in the presence large penetration of renewables;
- Frequency and voltage regulation in the presence large penetration of renewables;
- Photovoltaic and wind power forecasting methods;
- Image-based short-term forecasting techniques;
- Electric vehicles integrated with renewable energy sources;
- Vehicle-to-Grid (V2G) and ancillary services.

Guest Editor

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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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