Special Issue

Modeling, Optimization, Control and Demand Response of Electric Power and Energy Systems

Message from the Guest Editors

The purpose of this Special Issue is to solve these problems together, collect collaborative research in various spectra, and contribute to the research globally in relation to power generation, transmission, or distribution systems modelling, optimization, and control. The bottom line of this Special Issue is to establish more reliable, sustainable, and intelligent power system and energy models to solve a complex power system. The research in this Special Issue thus includes, but is not limited to:

- Energy demand, uncertainties, challenges, and stability issues
- Novel energy and power system models
- Dynamic and steady-state responses in power systems
- Quality and stable energy based on modelling and control methodologies
- Generation, transmission, distribution, and energy storage
- On-/off-grids with clean Renewable energy sources and reduction in gas emissions
- Modelling of various control strategies for robust and resilient grid systems
- Power system automation, optimization, artificial intelligence, or sustainability
- Alternative energy and power system solutions
- Application to electric (hybrid) cars, robots, flying vehicles or their batteries

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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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