Special Issue

Energy Complex System Simulation, Design, and Optimisation

Message from the Guest Editor

This Special Issue focuses on the modelling, simulation, design and optimisation methodologies and analysis which enables the integration of renewable energy resources and the transformation of existing fossil-based energy systems into future sustainable energy systems. Application areas are expected to be diverse and would include generation, distribution and stability control, distributed power and data systems, smart-cities, electrified transport systems—both ground based and aircraft—and much more. The approach to modelling will also be diverse and include the complex interaction of control and measurement data systems with physical dynamic models and hardware in the loop analysis. This Special Issue will present the diversity of models and their implicit or explicit theoretical backgrounds. Of particular interest is the integration of optimisation methods and heuristics with complex system simulation, analysis and design toolboxes with practical application examples.

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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