Special Issue

Simulation and Analysis of Electrical Power Systems

Message from the Guest Editor

Simulation and analysis of electrical power systems involve the use of mathematical models and computational tools to predict the performance of power systems. With the rapid development of power system digitalization, the demand for the simulation of electrical power systems and multi-physical field simulation of high-voltage power equipment is becoming more and more urgent. Considering the fast growth of research and development in the simulation of electrical power systems, this Special Issue will be focused on all aspects of mathematical models, simulation methods, and analysis of electrical power systems. Topics of interest include but are not limited to:

- Modelling and simulation of new power systems;
- Analysis and simulation technology of fault mechanisms in new power systems;
- Multiple physical field simulation of electrical equipment, e.g., transformer magnetic field, vibration noise analysis of bridge arm reactor, surface charge characteristics simulation of gas–solid/liquid–solid;
- Multi-physics field solving algorithms for high-voltage power equipment;
- Discharge development simulations of high-voltage power equipment.

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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