



energies



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Real-Time Simulation Advancing Power and Energy Research and Industry Practices

Guest Editors:

Dr. Panos Kotsampopoulos

Dr. Omar Faruque

Dr. Georg Lauss

Deadline for manuscript
submissions:
closed (10 June 2022)

Message from the Guest Editors

Dear Colleagues,

This Special Issue welcomes innovative papers dealing with recent advances in real-time HIL simulations in several areas.

The following topics are considered most relevant:

- advances in HIL testing of power electronic converters;
- advances in HIL testing of power system protection;
- advances in HIL testing of smart grid/microgrid controllers, energy management systems, wide area protection and control;
- apparatus modeling for real-time simulation and model validation;
- interfacing methods of PHIL and CHIL simulations—improvement of stability and accuracy;
- HIL cosimulation, cyber-security and cyber-physical energy systems;
- geographically distributed HIL and real-time simulator coupling/challenges;
- mechanical, multiphysics and multidomain HIL simulations;
- HIL in standardized testing and standardization of HILs;
- industrial experiences in all the above areas.



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Special Issue



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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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