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Simulation and Optimization of Electrotechnical Systems

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Deadline for manuscript
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Message from the Guest Editor

Understanding and finding the best solution for a given electrical problem is a big trend in contemporary research. For several years now, there has been a growing demand for electrification, which must meet regulatory and environmental constraints, be increasingly efficient and lightweight, and fulfil new functions.

More and more, the system aspect is considered from the design phase. System design and modeling must focus on the behavioral understanding of components, but also, and above all, on the interactions between them and the couplings between the models of each component.

The aim of this Special Issue is to compile the latest research on system modeling, simulation, and optimization techniques: development, characterization, and use of meta-models, multidomain and multiscale modeling, simulations from these models, system optimization. Concrete examples of implementation in modeling or optimal design of electrotechnical systems are also encouraged: hybridization, isolated electrical systems, electrical networks, electric propulsion and motorization, coupling of one or more components of power storage, electronics, motorization, mechanical transformation, EMC...



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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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