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Mathematical Modeling and Optimization of Energy Systems

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Message from the Guest Editor

Rapid global economic growth has resulted in continually rising energy consumption. Since the industrial revolution, conventional petroleum derivatives, such as coal, oil, and flammable gas, have been the primary energy sources. As a result, significant efforts are being made to generate energy from renewable sources, such as wind, solar, and so on. The recent focus of research has also been targeted toward the reliable and improved performance of renewable energy systems, with a focus on all components of the systems, including the power converter and its controlling techniques.

We invite the submission of original research or review papers to this Special Issue of Mathematics, entitled "Mathematical Modeling and Optimization of Energy Systems". The main objective of this Special Issue is to promote new advancements, developments, and applications of control, modeling and optimization in the field of energy systems. Additionally, we aim to highlight the possibilities of the careful integration of the energy system within the electric grid. Moreover, it is important to consider this impact, especially under fault conditions.











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Message from the Editor-in-Chief

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