Special Issue

Advances in Control and Optimization of Renewable Energy in Industrial Systems

Message from the Guest Editor

This Special Issue will focus on modeling, optimizing and controlling renewable energy in industrial systems. This SI aims to demonstrate the most recent developments in modeling and controlling renewable energy systems, which encompass analytical methodologies based on physics, data, and artificial intelligence. We will aspire to provide a platform for disseminating cutting-edge research on the modeling and control of renewable energy systems, restricted not only to electric energy generation, but also other alternative forms of renewable energy and conversion from one form to another. We invite scientists, researchers, and engineers to contribute to this SI through theoretical study, computer simulations, and experimental implementation. Therefore, we invite papers on the following topics:

- Bioenergy (biofuels, biomass, etc.);
- Energy storage (chemical, electrochemical, mechanical, thermal, etc.);
- Heat pumps;
- Hybrid renewable energy systems;
- Thermal energy;
- Marine energy;
- Solar energy;
- Wind energy.

Guest Editor

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Deadline for manuscript submissions

closed (20 April 2026)

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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