

Special Issue

Recent Optimization Methodologies of Energy Systems Based on Renewable Energy

Message from the Guest Editor

The most attractive topics of this special issue are:

- Optimization methodologies based on single objective function of energy systems;
- Optimization methodologies based on multi objective functions of energy systems;
- Single optimization algorithm for energy systems: particle swarm optimization; artificial bee swarm optimization; genetic algorithm; tabu search; simulated annealing algorithm; chaotic search; harmony search; etc.;
- Hybrid optimization algorithm for energy systems;
- Artificial techniques based on the genetic algorithm, particle swarm optimization, ant colony optimization, etc., for the optimization of energy systems;
- Applications of artificial intelligence in the optimization of renewable energy systems;
- Optimization and predictive models for properties of materials applicable in renewable energy systems;
- Optimization models applicable for predicting the performance and reliability of clean energy systems;
- Energy systems based on renewable energy sources (solar, wind, hydroelectric, geothermal, ocean, hydrogen, and biomass);
- Recent optimization methodologies for hybrid renewable energy systems with different energy sources.

Guest Editor

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Deadline for manuscript submissions

closed (15 October 2022)



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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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