

Special Issue

Power Systems Optimization and Sustainable Energy

Message from the Guest Editor

The unprecedented and continuous growth in all sectors of power systems, including generation, transmission, and distribution, introduces many design and operational challenges. Optimization has been used to solve many of these problems in power system planning, operation, and control. While most problems seek a globally optimal solution, many of the methods used today can only guarantee local optimality. New advancements in dynamic programming and artificial intelligence are making progress in the search for global optimality, but there is still much room for improvement. This Special Issue aims to present the latest advancements in all aspects of power system optimization, including innovations in modelling, algorithms, and solution techniques. Both theoretical and practical studies are welcome. Research areas may include (but are not limited to) the following:

- Power system optimization;
- Power system reliability;
- Electricity markets;
- Renewable energy integration;
- Power system monitoring and control;
- Data-driven approaches for power system operation.

Guest Editor

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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

Prof. Dr. Steve W. Lyon

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