Special Issue

Artificial Intelligence and Optimization for Smart Grids

Message from the Guest Editors

This Special Issue encourages new thinking and discussion about how AI and optimization techniques addresses the numerous critical issues arising from smart grids and renewable energy. Topics of interest for publication include, but are not limited to:

- Machine learning, deep learning, reinforcement learning, transfer learning, and federated learning for applications in smart grids;
- Optimization techniques, mathematical programming methods, and metaheuristics for applications in smart grids;
- Interoperation among electric vehicles, unmanned aerial vehicles, and smart grids;
- AI and optimization techniques for smart grids;
- AI and optimization techniques for internet of energy;
- AI and optimization techniques for sharing energy and energy trading;
- AI and optimization techniques for distributed energy;
- AI and optimization techniques for energy storage systems;
- AI and optimization techniques for renewable energy;
- AI and optimization techniques for green energy and carbon footprint;
- Novel applications of smart grids in smart city, smart transportation, smart healthcare, and smart manufacturing.

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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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