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Theory and Application of Energy System Optimization

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Deadline for manuscript submissions:
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Message from the Guest Editor

Energy systems are evolving worldwide as humanity progresses to sustainable development. Challenges arise due to high complexities of modern energy systems. Optimization techniques provide an indispensable way to address these issues. As a result, the theory and application of energy system optimization become more and more important. This special issue collects theoretical, computational, and application studies on optimization approaches to energy systems and state-of-the-art review papers. Research areas may include, but are not limited to, the following:

1. Efficient numerical methods for the optimization of complex problems;
2. Multi-objective optimization for treating different objectives;
3. Optimal control of distributed energy systems;
4. Mixed-integer optimization for design and operation energy systems;
5. Stochastic optimization of energy systems with uncertainties;
6. Practical applications of energy systems using optimization;
7. Design, analysis, and performance improvement using hybrid optimization approaches;
8. Real-time optimization of energy systems.

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Message from the Editor-in-Chief

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