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Modeling and Optimization Research of Integrated Energy Power System

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Message from the Guest Editors

At present, the situation of climate change is becoming more and more serious. The world energy pattern is changing. The task of reducing emissions is arduous. It is necessary to build an integrated energy power system centered on renewable energy. An integrated energy power system includes a variety of energy production. transmission and storage methods. The integrated energy power system has a complex structure and a variety of equipment and has typical nonlinear random characteristics and multi-scale dynamic characteristics. The traditional mechanism model analysis and optimal control methods have been difficult to meet the requirements of operation optimization, planning and design, multi-energy prediction and cooperative control of integrated energy power system.

This Special Issue aims to bring together studies describing recent advances in integrated energy power system modeling and simulation, optimal operation and scheduling, architecture design and optimal planning, multi-energy prediction and collaborative control. We welcome contributions from academia and industry in the aforementioned fields.









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Message from the Editor-in-Chief

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