Advances in Sustainable Development of Power Systems with Artificial Intelligence

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Message from the Guest Editors

This Special Issue aims to bridge this gap with new advances in the applications of artificial intelligence in power systems planning and operations. The topics include, but not limited to, the following:

- Knowledge–data complementary framework for power system planning and operations;
- Model–data combined driven technology in power system planning and operations;
- Physics-informed neural networks in power system planning and operations;
- Human-in-the-loop artificial intelligence framework for power system planning and operations;
- Deep learning-based renewable energy generation estimations and available power analysis;
- Deep reinforcement learning-based power system operations;
- Meta learning and federated learning in power system planning and operations;
- Artificial intelligence-based power system market and multi-agent games;
- Artificial intelligence-based power system stability analysis and control;
- Explainable machine learning in power systems planning and operations;
- Other advances in the sustainable development of power systems with artificial intelligence.

Special Issue

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Message from the Editor-in-Chief

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