



Advanced Artificial Intelligence Application for Power Systems

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Message from the Guest Editors

Dear Colleagues,

Power systems have undergone significant changes in recent years, primarily due to the integration of distributed energy resources (DERs), such as photovoltaic (PV), wind power, etc., into the distribution grid. However, as DERs proliferate in the distribution network, technical and economic issues arise, such as reverse power flow, under/overvoltage, feeder and transformer overloading, and protection issues. Most of the conventional methods for addressing these issues are ineffective, complex, and non-adaptable. Therefore, the main aim of this Special Issue is to collect articles on the application of advanced artificial intelligence (AI) to address power system issues. The topics of interest for publication include, but are not limited to:

- Intelligent detection, classification, and location of faults in power systems;
- Intelligent islanding detection;
- Renewable energy and load forecasting;
- Data-driven optimal power flow; and
- Data-driven power systems operation and planning.

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Message from the Editor-in-Chief

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