Special Issue

Advanced Artificial Intelligence Application for Power Systems

Message from the Guest Editors

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

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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