



Advances in Smart Grids and Microgrids

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Message from the Guest Editors

Dear Colleagues,

Integrated with intelligent monitoring, control, communication and self-healing, smart grids are designed to harness the full potential of renewables, embrace the rise of prosumers and evolve archaic power systems, and have done so since 2007. The ultimate realization of smart grids requires a long-term transition and the coexistence of multiple technologies. In the short term, the focus can be placed on achieving a smarter microgrid that utilizes existing or near-ready technologies in order to improve the efficiency of power grids and provide higher quality and environmentally friendly power.

The editors invite manuscripts reviewing recent advances in smart grids and microgrids. Topics of interest for publication include, but are not limited to:

- Smart grid planning and control;
- Optimization operation of renewable energy;
- Smart management of energy storage systems;
- Demand side management;
- Application of IoT and/or AI for smart grids;
- Control method of power electronics;
- Stability analysis of smart grid/microgrid
- DC microgrid and Hybrid AC-DC microgrid
- Coordination control for multi-connected energy sources





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Message from the Editor-in-Chief

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