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Smart Grids and Microgrids: From Simulations to Experimentation

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Message from the Guest Editors

Green energy transition is a major global goal to reduce emissions of pollutants and greenhouse gases and establish alternatives to expensive fossil fuels. Smart grids and microgrids are promising solutions as they can integrate renewable energy sources and work in islanded configurations. However, they require high-performing controls to ensure continuity of service in any operating condition.

This Special Issue aims to collect the most up-to-date experiences evolving from classical simulations to real-life engineering applications. Topics of interest for publication include, but are not limited to:

- Energy Management Systems for grid-connected microgrids;
- Tools for microgrid participation in energy markets;
- Digital twins of smart grids, microgrids, RES and, more generally, power distribution systems;
- Machine Learning tools for smart grids and microgrids;
- Real-time simulations for power production systems.

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Message from the Editor-in-Chief

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