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Data-Intensive Computing in Smart Microgrids

Guest Editor:

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Deadline for manuscript submissions:
closed (31 March 2021)

Message from the Guest Editor

Dear Colleagues,

Microgrids have recently emerged as the building blocks of smart grids, combining renewable energy sources, energy storage devices, and load management to improve power system reliability, enhance sustainable development, and reduce carbon emissions. At the same time, rapid advancements in sensor technologies, wireless and network communication, as well as cloud and fog computing, are leading to the collection and accumulation of large amounts of data.

The application of big data analysis techniques can optimize power operations in real-time by predicting electricity demands, discovering electricity consumption patterns, and developing dynamic pricing mechanisms. The intelligent analysis of data will enable microgrids to detect and restore from failures quickly, respond to electricity demand swiftly, and supply more reliable and economical energy. Overall, data-intensive analytics can provide effective and efficient decision support for all stakeholders in microgrids to achieve holistic smart energy management.

We invite submissions of relevant original research articles or reviews to Special Issue of *Energies* on Data-Intensive Computing in Smart Microgrids.

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Message from the Editor-in-Chief

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