Special Issue

Data-Intensive Computing in Smart Microgrids

Message from the Guest Editor

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.

Guest Editor

Dr. Herodotos Herodotou

Department of Electrical Engineering, Computer Engineering and Informatics, Cyprus University of Technology, 30 Arch. Kyprianos Street, 3036 Limassol, Cyprus

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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