Special Issue

Energy Management Systems for Microgrids

Message from the Guest Editor

A microgrid consists of a power distribution system operating at medium and low voltage with distributed energy sources. It can be connected to or disconnected from the main power system, and operates independently. As renewable energy sources expand, storage devices can be included, and in some cases flexible load control is possible. These energy management approaches for microgrids cover a broad spectrum of planning, operation, management, control, economic, environmental, and operational effect issues. Technical challenges associated with the operation and control of microgrids are broad. Problems with multiple microgrids include communication, time synchronization, zero inertia, etc. Smart ships can also be viewed as microgrids, and energy management in complex loads such as heat, electricity, and propulsion is leading to the reduction of CO2 emissions, improved power quality, and reduced energy supply costs. We invite the submission of high-quality manuscripts from engineers for publication in this Special Issue. Welcome to contribute!

Guest Editor

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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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