Special Issue

Recent Advances in Smart Grid

Message from the Guest Editors

The term ‘smart grid’ describes a system of energy distribution that uses computer-based remote control and automation, two-way communication between houses and power stations, as well as sensors placed along transmission lines to better manage the flow of electricity in the grid. In recent years, there has been significant progress in the development of model analysis control methodologies tailored specifically for smart grid. The digital technology that allows for two-way communication between the utility and its customers, as well as sensing along transmission lines, is what makes the grid ‘smart’. The smart grid represents an unprecedented opportunity to move the energy industry into a new era of reliability, availability, and efficiency that will contribute to our economic and environmental health. However, the introduction of advanced technologies makes grid more complicated. Therefore, this Special Issue focuses on presenting innovative research and developments in analysis and synthesis that are designed to tackle these challenges and enhance the performance and reliability of smart grid.

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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.

Editor-in-Chief

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