Special Issue

Energy Management Systems and Networks for Smart Buildings

Message from the Guest Editors

Increased energy efficiency and decarbonization of the energy system have become primary objectives for many nations of the world. The ongoing building energy system transition aims to provide building owners/managers and energy operators with the ability to manage building energy resources in real time. This Special Issue is dedicated to research that contributes to the development and broad uptake of large-scale smart energy management systems for smart buildings. This includes, but is not limited to, contributions from sensor networks and the internet of things, distributed systems and networks, cyber-physical systems, cloud and edge computing, cybersecurity, machine learning and artificial intelligence to manage local energy production, consumption and storage, electrical vehicle charging, appliances, and building demand response. We will consider simulation-based contributions, but preferably encourage work that includes the field testing of new technologies and approaches.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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