Special Issue

Smart Buildings for Sustainable and Resilient Power Grids

Message from the Guest Editor

It is a widely accepted fact that active participation of buildings is a key part of future smart grids. Efficient operation of buildings can result in substantial energy savings for building managers. It can also provide a powerful tool for utility operators. However, harnessing the full potential of buildings is particularly challenging due to the many uncertainties associated with their modeling and operation. In addition, the emergence of buildings as prosumers adds more complexity to the grid operation. This Special Issue will focus on the modeling and optimal operation of different types of buildings. We would like to invite you to contribute your articles documenting recent results on the efficient operation of buildings and building–grid interactions. We accept unpublished research, case studies, and review articles on this general topic. We cordially ask you to clearly discuss how a given modeling/control/optimization technique will contribute to harnessing the full potential of buildings.

Guest Editor

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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.

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