Special Issue

Forecasting and Management Systems for Smart Grid Applications

Message from the Guest Editors

The move towards a low carbon economy brings opportunities and challenges for energy systems and electricity networks, especially at the local level. Low carbon technologies such as photovoltaics, heat pumps, and electric vehicles will produce larger and more volatile demands on the network and increase the likelihood of violating the capacity of the network. At the same time, storage devices and energy management systems can provide opportunities to take advantage of the flexibilities in the network, utilise renewable energy, smooth demand, and encourage energy efficiency. In many of these applications, a forecast will be essential to optimise the outcomes of the management systems and necessary for a true smart electricity grid. They will enable more optimal planning and help network operators and aggregators better anticipate and manage network disruption such as high PV generator or large spikes in demand. This issue will be interested in all applications which use forecasting to enable, or support, management systems in low voltage smart grid applications.

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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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