Special Issue

Energy Data Analytics for Smart Meter Data

Message from the Guest Editors

Smart meters are a cornerstone for the realization of next-generation electrical power grids. In addition to measuring electrical consumption data at much greater temporal and amplitude resolutions than offered by traditional metering devices, smart meters can communicate collected data to external service providers and thus enable the creation of novel energy data-based services that go beyond the traditional bill at the end of the month. A fundamental research challenge, still unresolved as of today, is how to fully explore and exploit the information content of smart meter data—a challenge pertaining not only to data processing, but equally to their collection, transmission, and security and privacy protection. We thus solicit research articles that cover the entire lifecycle of smart meter data for this Special Issue, ranging from the methodological data collection, the design and evaluation of data analytics algorithms, the exchange of data over computer networks, to the long-term storage and adequate privacy protection of smart meter data.

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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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