Special Issue

Energy Informatics in Smart Grids

Message from the Guest Editors

Recent years have seen many dramatic changes in the supply, distribution, and consumption of energy. This is the result of both technological and political developments, including digitalization, sharp drops in the cost of renewable energy, coupling of energy sectors to multi-modal energy systems, and the social remit for adopting renewables into the generation mix. The field of energy informatics is a key element for both kinds of development—technological and political. New concepts can be realized and can play a role in new regulatory frameworks, e.g., concerning ancillary service markets. While, in the first decade of energy informatics information systems, data quality and interoperability were the focus of research, the field now spans across all areas of energy system operation and management, including distributed generation control algorithms, user interaction systems, cyber security, and algorithmic trading in future energy markets. With this Special Issue, energy informatics researchers are invited to submit new and ongoing research in the field of energy informatics in smart grids, including multi-modal systems.

Guest Editors

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Message from the Editor-in-Chief

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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