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Smart Home Technologies Based on IoT Concepts

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Deadline for manuscript
submissions:

20 March 2022



mdpi.com/si/62782

Message from the Guest Editors

Dear Colleagues,

Among the multiple smart home application areas, the management of power production and consumption is a hot research area, which has seen increased interest recently due to the demand for renewable energy sources, energy storage technologies, and electric mobility.

This Special Issue aims to joining contributions from academics and researchers with technical or scientific works focusing on smart homes and IoT technologies with application to energy monitoring, control and management. The topics of interest for publication include, but are not limited to:

- Wireless sensor networks for energy monitoring and control
- Cloud computing and IoT applied to residential power management
- Smart sensors and devices for energy applications
- Smart home protocols for energy systems
- Smart homes as key enablers of smart grids
- Artificial intelligence techniques for energy management
- Demand response systems and algorithms
- Smart home energy management applications
- Electric mobility G2V/V2G modes controlled by IoT technologies in smart homes
- IoT technologies for managing the power production from renewables in smart homes
- Smart electrical appliances

Special Issue



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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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