Special Issue

Internet of Things for Energy-Efficient Smart Cities: Technologies, Big Data and Security

Message from the Guest Editors

The rapid urbanization of our world presents challenges and opportunities, with smart cities emerging as a strategy to enhance citizens' quality of life and ensure sustainable development. Central to this is the Internet of Things (IoT), which connects devices and systems for intelligent data collection and control. As urban areas grow, energy consumption increases, making energy efficiency critical. IoT technologies optimize energy usage across sectors like smart grids and transportation. This Special Issue seeks original research on IoT systems for energy-efficient smart cities, focusing on innovative technologies, Big Data management, and security frameworks. Topics include novel IoT architectures, low-power devices, Big Data analytics, cybersecurity mechanisms, smart grids, and sustainable resource management.

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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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