Special Issue

Energy Harvesting State of the Art and Challenges II

Message from the Guest Editors

Energy harvesting is a process that captures small amounts of energy that would otherwise be lost as heat, light, sound, vibration or movement. It has been an important research topic in the past 20 years and is seen as a solution to the challenges that Internet of Things (IoT) devices (e.g., sensors, communications) face in power supply, which render many IoT applications impractical due to battery size, battery replacement, and recharging. Research on energy-harvesting technologies to meet the power demand of IoT devices is driven by the growing demand for self-sustainable systems that require minimum or no maintenance, implementation of the IoT in automation, and adoption of wireless sensor networks in various applications. The aim of this issue is to provide readers with the current state-of-the-art developments in energy harvesting and their challenges, inspiring further research in advancing this exciting and important research topic.

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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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