Special Issue

Enablement of Batteryless Applications with Energy Harvesting

Message from the Guest Editor

Energy harvesting converts a small amount of available energy in the environment into usable electrical energy. Whether or not the harvested energy is large enough to operate a system by itself, an efficient energy harvesting circuit allows for extending the lifetime of a battery and reduces the operation and management cost required for replacing a battery. In addition, energy harvesting can be a crucial power source when a system is designed for ultra-low power applications. We are interested in articles that achieve state-of-the-art performances either in increasing harvesting efficiency or in lowering the energy requirements of a system. Potential topics include, but are not limited to, the following: - Enhancing the conversion efficiency of various energy sources; - Circuit techniques that enable a conventional battery-powered system to be a batteryless one; - Low-cost small-size batteryless IoT systems. Keywords

- energy harvesting
- circuit
- batteryless
- efficient
- IoT
- low-power

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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