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Design and Analysis of Energy Harvester

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Message from the Guest Editors

Energy harvesting is a process by which ambient energy (e.g., solar energy, thermal energy, kinetic energy, electromagnetic field energy, and so on) is captured and converted into electrical energy which would otherwise be wasted. Energy harvesters provide very small amounts of power, ranging from nanowatts to milliwatts, which can be used to power wireless devices such as wearables and wireless sensor networks. Therefore, the design and analysis of energy harvesters is a topic of vital importance. The major topics of this Special Issue include, but are not limited to, the design and analysis of the following energy harvesters:

- Thermoelectric energy harvesters;
- Electromagnetic energy harvesters;
- Electrostatic energy harvesters;
- Magnetostrictive energy harvesters;
- Energy harvesting from photovoltaic cells;
- Piezoelectric energy harvesters;
- Energy harvesters for wearables;
- Biochemical energy harvesting;
- Energy harvester integrated self-powered sensor systems;
- Power management systems for energy harvesters;
- Materials for energy harvesters;
- Other energy harvesters.

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Message from the Editor-in-Chief

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