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Thermoelectric Energy Harvesting and Sensing

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Message from the Guest Editor

Energy harvesting by thermoelectric effects offers an alternative source of usable electrical power by capture and conversion of available thermal energy in the environment. By creative and innovative design and integration, feasible and reliable thermoelectric systems can be investigated to provide efficient and reliable energy harvesting systems for sensory platforms.

Potential topics of this Special issue include, but are not limited to the following:

- Design and modelling of thermoelectric generators for low-power sensor and actuator devices, and condition monitoring;
- Co-designing and co-optimization of integrated energy-harvesting system elements;
- Manufacturing, testing and verification of thermoelectric-based energy harvesting systems;
- Low cost strategies and packaging system integration technologies for self-powered and self-sustainable IoT-enabled systems and smart energy networks;
- Reliability and feasibility studies and consideration of the critical problems of energy harvesting systems;
- Maximum power point tracking and power management of the energy harvesting systems.



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Special Issue



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Message from the Editor-in-Chief

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