Special Issue

MEMS Energy Harvesting and Low-Power Sensing

Message from the Guest Editors

Today, MEMS technology is often the first choice in sensor applications and is expanding further, taking advantage of new materials and processes, such as piezoelectric and thermoelectric films. MEMS is an open field of research that is attracting efforts across several disciplines from academia and industry, and there are expectations that MEMS platforms combining advanced energy harvesting methods with improved low-power sensing techniques will result in new devices. We warmly invite you to submit contributions on scientific and technical aspects of MEMS energy harvesting and low-power sensing, ranging from energy conversion techniques and devices to electronic circuits for energy management, low-power sensing techniques and devices, and sensor electronics for signal conditioning and processing. Topics include but are not limited to the following: - Theory, design, modeling, fabrication, experimental characterization, and applications of MEMS and microscale energy harvesters; - Electronic circuits for energy management and storage; - MEMS autonomous sensors and battery-less sensor nodes; - MEMS low-power sensing techniques, circuits, and devices.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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