Special Issue

Low Power Circuits and Systems for IoT Autonomous Sensors and Sensor Networks

Message from the Guest Editor

Along with the recent advances in the Internet of Things (IoT), sensors are playing an important role in connecting the physical and the cyber worlds. Since IoT sensors are ubiquitously implemented, it is very impractical and costly to periodically charge or replace the batteries in these ubiquitous sensors. In order to make these IoT sensors autonomous and self-sustained, there are several feasible approaches, including harvesting energy from the environment, designing low power sensors and sensor interface circuits, and proposing low power data processing and wireless communication algorithms. This Special Issue will focus on emerging technologies in energy harvesting, power management, low power sensors, and sensor networks to make IoT wireless sensors fully self-sustained or to significantly prolong the battery lifetime with circuit-, system-, and algorithm-level designs. We invite authors to contribute original research articles, as well as review articles, which advance the state-of-the-art with innovative solutions for self-sustained or significantly prolonged battery-life IoT wireless sensors.

Guest Editor

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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