Special Issue

Green Wireless Sensor Network

Message from the Guest Editor

Green wireless sensor networks (GWSN) represent an emerging concept in which the lifetime and throughput performance is maximized while minimizing the carbon footprints. Sensor nodes are usually deployed in harsh environments with no infrastructured power supply, and are often scattered over wide areas where human intervention is difficult and expensive, if not impossible. Therefore, most of the research efforts in the field of WSNs has been devoted to lifetime maximization by means of the joint application of low-power design, dynamic power management, and energy-aware routing algorithms. Designing a GWSN addresses several hardware-software architectural aspects, such as: energy harvesting from natural resources; smart operation modes through dynamic power management strategies. This Special Issue targets scientific contributions on GWSN addressing energy efficiency and green computing principles. Potential topics include, but are not limited to:

- Energy-harvesting-enabled networks;
- New power management strategies;
- Low-power triggering;
- Energy efficient routing algorithms;
- Energy redistribution among nodes;
- Use cases and testbeds

Guest Editor

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Deadline for manuscript submissions

closed (31 January 2021)

Journal of Sensor and Actuator Networks

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 9.4

mdpi.com/si/43725

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Message from the Editor-in-Chief

I encourage you to contribute research and comprehensive review articles for publication in Journal of Sensors and Actuator Networks (JSAN), an international, open access journal which provides an advanced forum for research findings in areas of sensors and actuators. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sensors and actuators and fostering applications of sensor-based measurements and effective actuator incorporation.

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