

Green Wireless Sensor Network

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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.

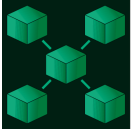
Designing a GWSN addresses several hardware-software architectural aspects, such as: energy harvesting from natural resources; smart operation modes through dynamic power management strategies.

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





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Message from the Editor-in-Chief

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