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Advances in Wireless Sensor Network Signal Processing

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Message from the Guest Editors

Dear Colleagues,

As a revolutionary information-gathering method, wireless sensor networks (WSNs) are an indispensable building block of Internet-of-Things (IoT) systems. Currently, data transmissions in WSNs are enabled by a wide variety of wireless communication technologies, such as Wi-Fi, ZigBee, LoRa, and NB-IoT. However, these radio solutions as they exist today are not yet well-established paths to satisfy the required reliability and efficiency of various IoT applications. This is due to their limited and insufficient signal processing capabilities regarding power consumption, data rate, coverage, immunity against interference, and so forth. In this context, this Special Issue aims to foster discussions about the design, implementation, evaluation, and application of emerging signal processing techniques for WSNs among practitioners, researchers, and educators. This Special Issue solicits articles addressing numerous topics, including but not limited to the following:

- Design, development, and measurement of WSN testbeds and simulation tools;
- Foundations of signal processing in WSNs;
- Distributed and collaborative signal processing in WSNs...

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Message from the Editor-in-Chief

Our primary goal is to encourage scientists and engineers to publish their theoretical results and developed methods in as much detail as possible. There is no limit to the maximum length of papers. Whenever possible, authors are encouraged to provide relevant data and developed code so that the results can be reproduced. Our goal is to provide a platform for scientists and engineers to share new approaches to signal processing in various application domains.

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