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Wireless Sensor Networks: Signal Processing and Communications

Guest Editor:

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Message from the Guest Editor

Wireless sensor networks (WSNs) are considered one of the most important data sources of Internet of Things (IoT) applications. Consisting of tens, hundreds or even thousands of devices, WSNs can collect data on the ground and in real time from a wide range of physical and environmental variables. However, this massive data generation is pushing network capacity to its limits, and the need to support advanced processing at the periphery of the network instead of at the cloud, or elsewhere along the edge-to-cloud path, is becoming more and more relevant. This Special Issue calls for high-quality, innovative, and original works that elaborate on the use of novel edge/fog computing architectures to support the effective use of WSNs in novel IoT applications.

Topics of interest include, but are not limited to:

- edge/fog computing architectures and routing strategies for WSNs
- cloud–edge continuum
- resource allocation and orchestration of WSN devices in edge/fog computing
- security issues of WSNs in edge/fog computing paradigms
- hybrid communication architectures for WSN: Terrestrial and Proposed
- low-latency applications for the IoT.



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Special Issue



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Message from the Editor-in-Chief

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