Special Issue

Wireless Sensor Networks: Technologies, Applications, Prospects

Message from the Guest Editor

The use of wireless sensor networks (WSNs) harks back to the 1950s when the United States military developed the sound surveillance system (SOSUS) to detect Soviet submarines. Currently, WSNs have found their way into a host of other applications such as energy systems, air and water quality monitoring systems, health monitoring systems, smart cities (traffic control, environmental monitoring, parking system), autonomous vehicles, and Industry 4.0. It is almost impossible to visualize any large practical smart system without WSNs. To manage hostile conditions and difficult-to-access working environments typically experienced by these applications, wireless sensor nodes need to operate in close collaboration with each other to efficiently use their limited resources.

The main objective of this Special Issue is to provide a common space for WSNs researchers to share their high quality research and outcomes, and disseminate them to the rest of the world. The topics include novel designs, developments, and management of smart systems with a focus on new applications. In addition to these, notable advancements in the performance of WSN are welcome.

Prof. Alvaro Araujo

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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