Special Issue on
Intelligent Sensing and Data Processing in Wireless Sensor Networks

CALL FOR PAPERS

The constant improvement of sensor's capacity in sensing, storage, and computation makes wireless sensor networks (WSNs) be more powerful to implement a number of applications, including monitoring, detection, classification, and localization. Intelligent sensing and data processing techniques provide capabilities to improve the network's performances in result reliability, energy efficiency, data privacy, and network security, and thus has always been a hot research topic in WSNs. Besides, new emerging applications, such as smart homes, biomimetic sensing, and group behavior monitoring, bring new challenges to develop new algorithms and models to meet these requirements. Some new techniques, like big data, cloud computing, and fog computing, also provide us with new research opportunities to deal with sensing and data processing problems in WSNs.

This special issue invites authors to submit high-quality contributions related to intelligent sensing and data processing in WSNs, including algorithms, models, simulations, and applications. Topics of the state of the art, standards, tests, and evaluations are also encouraged. All submissions need to be original and not published or under review in any journal or conference.

Potential topics include, but are not limited to:

- Target detection, classification, localization, and navigation
- Intelligent sensing frameworks and models in WSNs
- Cooperative sensing in WSNs
- Fusion of data, features, and decisions in WSNs
- Multimedia processing techniques in WSNs
- Sensor data calibration
- Sampling, coding, and compression for data transmission in WSNs
- Big data, cloud computing, and fog computing in WSNs
- Sensor data mining, such as evaluation, association, and prediction
- Energy efficiency and security in data processing

Authors can submit their manuscripts via the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/jcnc/isdp/.

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