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Sensor and Actuator Networks

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Machine Learning in WSN and IoT

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Deadline for manuscript submissions:
closed (31 October 2021)

Message from the Guest Editors

In order to further improve the state-of-the-art regarding the usage of ML with wireless sensor networks and IoT scenarios, numerous challenges need to be overcome. The lack of a unified data representation presents a challenge that breaks compatibility amongst the systems. Energy-efficient models are necessary for ML deployments close to the edge. Noise and gap resistant data analysis is a requirement for several scenarios. Data aggregation and dimensionality reduction is a necessary step to deal with the amount of data produced.

The Special Issue targets scientific contributions on the development, innovations, and implementations of ML applied to wireless sensor networks, deployed in real IoT scenarios. Topics include but are not limited to:

- ML in Multi-Access Edge Computing (MEC)
- Orchestration of ML services in 5G/6G environments
- Distributed ML algorithms
- Methods to deal with unstructured data
- Uniformization/Normalization of sensor data
- Energy efficient ML models
- Noise and gap resistant data processing and modeling
- ML transversal application in WSN
- Testbed for ML evaluation for WSN or IoT

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Message from the Editor-in-Chief

I encourage you to contribute research and comprehensive review articles for publication in Journal of Sensors and Actuator Networks (JSAN), an international, open access journal which provides an advanced forum for research findings in areas of sensors and actuators. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sensors and actuators and fostering applications of sensor-based measurements and effective actuator incorporation.

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