Journal of
Sensor and Actuator Networks

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Networks that Learn: Towards Autonomous Network Systems

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Deadline for manuscript submissions:
closed (31 July 2018)

Message from the Guest Editors

Dear Colleagues,

With this special issue, our interest is centered around "networks that learn", where artificial intelligence tools are applied to the optimization of communication networks. We believe that learning and adaptation will be key to achieve the maximum level of spectrum efficiency, by letting competing systems to autonomously cooperate with one another, simultaneously understanding the surrounding environment and adapting to it. Along these lines, a relevant initiative is DARPA's Spectrum Collaboration Challenge, which aims at exploiting machine learning to overcome the scarcity in the radio frequency spectrum and is pushing towards a so called network autonomy.

In conclusion, we encourage the submission of papers on the latest advances on machine learning applied to communication systems. In particular, we warmly welcome submissions addressing, but not limited to, the following topics:

- Autonomous network optimization through machine learning
- Radio frequency characteristics identification and fingerprinting
- Traffic pattern analysis
- Blind spectrum cooperation strategies (i.e., no primary network is known in advance)

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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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