

## CALL FOR PAPERS

### Special Issue on “Machine Learning Applications for Self-Organized Wireless Sensor Networks”

#### Scope:

*This Journal Special Issue focuses on “Machine Learning Applications for Self-Organized Wireless Sensor Networks (WSNs)” where ‘machine learning algorithms’ are applied to ‘Wireless Sensor Networks’ to address open issues in ‘Self-Organized Wireless Sensor Networks’.*

Over the last decade, there has been an increasing interest in research of ad-hoc and wireless networks. The interconnection of embedded devices is expected in many systems including mobility, intelligent transportation, and smart cities. It is being promoted by the software engineering community to use network-based machine learning systems as the adequate solution to handle the current requirements of complex big data processing problems that demand distribution, flexibility, and robustness. However, machine learning research has been focused mainly in the traditional network problems with "structure" (images, audio, video), and not in the smart and modern ad-hoc or wireless networks problems, making the data processing in such systems a big challenge. In this special issue, we invite contributions that show how machine learning algorithms and novel intelligent techniques may be used to address the open problems in self-organized wireless sensor networks and intelligent data aggregation and routing.

We especially welcome papers that explore machine learning applications in the following areas of wireless sensor networks:

- Intelligent data routing techniques in Adhoc/wireless sensor networks
- Machine learning for intelligent transportation systems
- Self-organizing wireless sensor network
- Machine learning for quantum wireless sensor networks
- Real-time wireless sensor network data aggregation
- Optimization algorithms for energy efficient wireless sensor network communication
- Quality-of-service for ad-hoc and wireless sensor networks
- Multimedia and big data processing in wireless networks
- Privacy-preserving big data processing, fusion, mining, and analytics
- Machine learning applications in internet-of-things and smart sensors.
- Reliability, resiliency and fault tolerance techniques in wireless sensor networks
- Machine learning for online stream processing in wireless networks
- Data security and privacy issues in wireless sensor networks

### **Submission Format and Review Guidelines:**

The submitted papers must be written in English and describe original research not published nor currently under review by other journals or conferences. Parallel submissions will not be accepted. All submitted papers, if relevant to the theme and objectives of the special issue, will go through an external peer-review process. Submissions should include an abstract, 5-10 keywords, and the e-mail address of the corresponding author.

### **Important Dates**

Paper submission due: October 05, 2018

Acceptance notification: December 05, 2018

Revised paper due: January 05, 2019

Final Acceptance notification: March 2019

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