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Call for Papers

Special Session on Collaborative Wireless Sensor Networks and Internet of Things IEEE International Conference on Systems, Man, and Cybernetics

<http://www.smc2016.org/>

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Background: A Wireless Sensor Network (WSN) is a collection of tiny devices capable of sensing, computation and wireless communication operating in a certain environment to monitor and control events of interest in a distributed manner and collectively react to critical situations. WSN applications span various domains such as environmental and building monitoring and surveillance, pollution monitoring, agriculture, health care, home-automation, energy management, earthquake and eruption monitoring. Notably, through collaboration WSNs can organize efficiently, prolong system lifetime, handle dynamics, detect and correct errors, all with the final goal of eventually executing reliably the user application. Moreover, collaborative WSNs are integrated as basic elements of collaborative IoT technologies to create novel pervasive smart environments. This special session focuses on exploring collaborative techniques to make WSNs more reliable, intelligent, effective and easy-to-use in academic- and industry-related scenarios and to integrate them with IoT technology. Prospective authors are invited to submit original papers to the Special Session in the areas described below.

Topics: The topics for the special session include the following but are not limited to:

- WSN/IoT architectures, protocols, and algorithms
- Collaborative design of sensor nodes, WSN and IoT devices
- Localization in WSN/IoT
- Data management in WSN/IoT, including distributed storage, distributed processing, query, manipulation, data fusion, data mining, and Big Data
- WSN/IoT reliability and security
- Cooperative signal and information processing in WSN/IoT
- Integration between WSN and IoT
- Collaborative Body Sensor Networks and Wearable Computing
- Integration of WSN and Cloud computing
- IoT/WSN applications in Health Care, Automotive, Logistics, Energy Management, Manufacturing, etc.
- Collaborative IoT Human-oriented Applications and Systems

Important Dates

April 15, 2016: Deadline for submission of full-length papers

May 25, 2016: Acceptance/rejection notification

July 9, 2016: Final camera-ready papers due in electronic form.

Submission

Papers for the Special Session should be submitted through the main conference online submission system on the SMC 2016 conference website. Papers for the Special Session should not be submitted to any other regular or special sessions.

All submitted papers of Special Sessions will have the same review process as regular submitted papers. Reviewers for Special Session papers will be members of the SMC 2016 Program Committee and peer-reviewers nominated by the Special Session organizers.

The special session is jointly organized by the IEEE SMC TC on Computer-Supported Cooperative Work in Design and TC on Interactive and Wearable Computing and Device.