SMC 2014 Special Session Call for Papers

Collaborative Wireless Sensor Networks and Internet of Things Technology

http://www.smc2014.org

Special Session organizer
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Introduction

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.

Indicative Topics/Areas

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, and data mining
WSN/IoT reliability and security
Cooperative signal and information processing in WSN/IoT
Integration between WSN and IoT
Collaborative Body Sensor Networks
Integration of WSN and Cloud computing
WSN applications in Health Care, Automotive, Logistics, Energy Management, Manufacturing, etc.
Collaborative IoT Applications and Systems

Important Dates

April 7, 2014: Deadline for submission of full-length papers to special sessions.
May 25, 2014: Acceptance/Rejection Notification.
July 9, 2014: Final camera-ready papers due in electronic form.

Submission

Manuscripts for a Special Session should **NOT** be submitted in duplication to any other regular or special sessions and should be submitted to SMC 2014 main conference online submission system on SMC 2014 conference website.

All submitted papers of Special Sessions have to undergo the same review process (three completed reviews per paper). The technical reviewers for each Special Session paper will be members of the SMC 2014 Program Committee and qualified peer-reviewers to be nominated by the Special Session organizers.

Organized by IEEE SMC TC on CSCWD and IEEE SMC TC on Environmental Sensing, Monitoring and Decision Making