Call for Papers
IET *Wireless Sensor Systems*

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Editor-in-Chief: Sherali Zeadally, University of Kentucky, USA

Special Issue:
Use of Cellular Technologies in Sensor Networking

Cellular networks of today, because of their ubiquitous presence and ever increasing data handling capability, are ideally suited for a number of sensor-related applications. Even in scenarios where sensors are stationary or nomadic, wireless is the technology of choice for connecting these sensor networks together and beyond to central reporting locations. With the introduction of Device-to-Device (D2D) and network relays, the use of cellular technologies such as LTE in sensor networking is expected to increase.

For this special issue, authors are invited to submit original contributions that address the use of cellular technologies in sensor networking. All submitted papers will be peer-reviewed and selected based on their quality and their relevance to this special issue. Potential topics include, but are not limited to novel sensor network applications, services, architectures and technologies that leverage existing cellular technologies or propose new optimizations/enhancements to them.

Examples include:

- Use of cellular technologies with sensor networks in various M2M scenarios such as Smart cities, eHealth, Smart Transportation etc.
- Sensor networking with cellular technology in Public Safety applications (e.g., earthquake and tsunami warning systems)
- Power saving optimization techniques for battery operated cellular technology based sensors
- Small data transmission techniques for use by sensors over cellular networks
- Group based sensor management that run over cellular networks

- Configuration, Monitoring and Provisioning of sensors over cellular networks
- Use of a common M2M service framework in cellular based sensor networking applications
- Mechanisms for leveraging the underlying cellular network resources (location, QoS etc.) in sensor networks using a standard set of APIs
- Self-optimization and self-healing of sensor networks using cellular technologies
- Use of Relay and other techniques for communications between sensor network and cellular systems

Submitted articles should not have been previously published or currently under review by other journals or conferences/symposia/workshops. Papers previously published as part of conference/workshop proceedings can be considered for publication in the special issue provided that they are modified to contain at least 40% new content. Authors of such submissions must clearly indicate how the journal version of their paper has been extended in a separate letter to the guest editor at the time of submission. Moreover, authors must acknowledge their previous paper in the manuscript and resolve any potential copyright issues prior to submission.

All submissions are subject to the journal's peer-review procedures. The authors should follow the journal's Author Guide at **http://digital-library.theiet.org/journals/author-guide** when preparing papers for submission to the Special Issue.
The Authors should indicate "Special Issue on Use of Cellular Technologies in Sensor Networking" on their manuscripts.

Important dates:

Submission deadline:
1 Apr 2015

Publication Date:
Apr 2016

For enquiries regarding this Special Issue please contact the Guest Editors:

Farooq Bari
AT&T,
7277 164th Ave. NE,
Redmond WA 98052, USA
E: farooq.bari@att.com

Puneet Jain
Intel Corporation
2111 NE 25th Ave
Hillsboro, OR 97124, USA
E: puneet.jain@intel.com

Ernesto EXPOSITO
LAAS/CNRS
7 Av. Colonel Roche, BP 54200
31077 Toulouse Cedex 04,
France
E: ernesto.exposito@laas.fr

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Contact us:

IET Wireless Sensor Systems
IET Research Journals Dept.
Michael Faraday House
Six Hills Way
Stevenage
SG1 2AY
United Kingdom

Kruna Vukmirovic, Executive Editor (IET Research Journals)
T: +44 (0)1438 765504
E: iet_wss@theiet.org

www.**ietdl**.org/IET-WSS