



# Journal of Telecommunication Systems (Springer)

<http://www.springer.com/journal/11235>

ISSN: 1018-4864, Editor-in-Chief: Bezalel Gavish

## Special Issue on

## Advances in Wireless Sensor Communications and Applications for Smart Space

Smart Spaces (SS) represents an advanced communication environment featuring daily-life objects that continuously involve and are focused on final non-expert users. SS has rapidly emerged as an exciting new paradigm that tends to include different active research fields such as ubiquitous, grid, and P2P computing. It aims at providing computing and communication services in a much more convenient, seamless, and pleasurable way for the next generation smart space environments. That is, a user will be able to remotely access and control information and appliances used in smart spaces, utilizing in an easy convenient way various services that result from the integrated cooperation of possibly heterogeneous communication-enabled objects. In order to realize the advantages of such systems and services, there is the need for proper and novel communications system and networks that simplify the achievement of context-dependent and secure service provisioning, thus leveraging the cost-effective design and implementation of SS applications. SS environments have recently raised tremendous interests in both the academic and the industrial research communities as one of the most promising application fields for pervasive computing services.

This special issue aims to expose the readership to the latest research results on advanced issues in wireless sensor communications and applications for SS. It will include a number of related topics such as effective context extraction and representation, context-based service discovery, context-based service composition, integration of legacy systems and services, security theory, business models, and novel applications that are associated with SS utilization. The papers will be peer reviewed by at least three independent reviewers and will be selected on the basis of their quality and relevance to the theme of this special issue.

Papers on practical as well as on theoretical topics and problems are invited. Topics include (but are not limited to):

- Wearable intelligence in SS
- Wireless sensor networks (WSN) / RFID application for SS
- Network Middleware and protocols for SS
- WSN and Context awareness model for SS
- Smart and Personal Devices for SS
- Smart building applications and services
- Embedded hardware and software for SS
- Real-time OS for SS
- Power-aware Computing for SS
- Multimedia security and services in SS
- Authentication, access control, and privacy protection for SS
- Commercial and industrial application for SS

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### Schedule of Publication :

Submission due: July 30, 2010

Final versions due: January 15, 2011

Acceptance Notification: December 30, 2010

Publication date: 2<sup>nd</sup> or 3<sup>rd</sup> Quarter 2011 (Tentative)

### Submission Details:

Guidelines for preparation of the manuscripts are provided at the Telecommunication Systems journal website, <http://www.springer.com/journal/11235>. The manuscripts have to be submitted in the form of a PDF file to the Corresponding Guest Editor - Dr. Seungmin Rho (pc.seungminrho@gmail.com). The submission must include the title, abstract of your paper, and all the authors' names, affiliations and emails. All papers will be rigorously reviewed based on the quality: originality, high scientific quality, organization and clarity of writing, and support provided for assertions and conclusion. In addition, this special issue also collects best papers from the 6th International Symposium on Wireless sensor network Technologies and Applications for Smart Space (WTA 2010), Korea, Dec. 2010.