

Call for Papers

Special Issue on “Scalable Wireless Networks”

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*International Journal of Communication Networks and
Distributed Systems (IJCNDs)*

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Aims and Scope:

With the explosive proliferation of mobile communications and wireless computing devices, the scalability property is becoming an increasingly popular and important issue in wireless communication research, as it has been recognized as one of the key features for supporting pervasive networking scenarios.

The scalability concept involves several dimensions, like the node number, the data load, the user/application number, etc, and it is the basis to break up the cellular concept enriching it by multi-hop communications. Nevertheless, many aspects of scalable wireless communications are still open problems and, furthermore, some of the scalable solutions for wireless networks proposed so far are based on ideal assumptions not always justified in the practical applications.

The aim of this special issue is to bring together the state-of-the-art research contributions that address the major opportunities and challenges of scalable wireless communication and networking, with emphasis on the design, the analysis and the evaluation of new techniques and novel application scenarios.

Topics of Interest:

Original, unpublished contributions addressing application and architectures, systems and protocols design, development and analysis, in all areas related to scalable wireless networks are solicited. Topics of interest include, but are not limited to:

- congestion, scheduling and admission control
- MAC and data link algorithms
- routing, broadcasting and multicasting protocols
- transport-layer protocols
- data transportation, dissemination, aggregation, replication and management
- resource allocation, discovery and management
- context and location-aware services
- power-aware architectures, algorithms and protocols design
- security and privacy
- Quality of Service (QoS) and fairness provisioning
- cross-layer design and optimization
- information theoretic aspects of large scale wireless networks
- innovative modulation and coding techniques
- wireless sensor networks
- mobile, mesh and vehicular ad hoc networks
- opportunism and cooperation for scalable communications
- scalable peer-to-peer and delay-tolerant networks

- modeling and simulation methodologies for large scale wireless networks
- practical issues, prototypes and test beds design to investigate scalability
- challenges arising from new technologies (UWB, MIMO, beam forming, Cognitive Radio, etc.)

Important dates:

Paper submission due: October 1, 2009
 Notification of acceptance: January 15, 2010
 Camera-ready version due: March 1, 2010

Submissions:

Authors are invited to submit full papers describing original research, unpublished and not currently under review by another conference or journal. Papers previously appeared in proceedings of conferences could be submitted to this special issue if they are substantially revised or improved from their earlier versions with at least 30% of new materials.

The manuscripts should follow the 9 1/2" x 6 1/2" template available on <http://www.inderscience.com/mapper.php?id=64>. A guide for authors, sample copies and other relevant information for submitting papers are available on the Author Guidelines page <http://www.inderscience.com/mapper.php?id=31>.

All submitted manuscripts will be judged by at least three experts based on the correctness, originality, technical strength, significance and quality of presentation through a peer review process.

Authors have to send a copy of the manuscript in the form of a PDF file attached to an e-mail with the subject "IJCND S Special Issue on Scalable Wireless Networks" to the following:

Dr. Marcello Caleffi
 Department of Biomedical, Electronic and Telecommunications Engineering
 University of Naples Federico II
 E-mail: marcello.caleffi@unina.it

With a copy to:

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Guest Editors:

Luigi Paura and Marcello Caleffi, University of Naples Federico II (Italy)