

# SANS 2009

*The International Workshop on Scalable Ad Hoc and Sensor Networks*

<http://www.ieee-sasn.org>

St. Petersburg, Russia, 12 - 14 Ottobre 2009

technically sponsored by IEEE

colocated with ICUMT 2009

The International Conference On Ultra Modern Telecommunications

<http://www.icumt.org>

## **Aims and Scope:**

The scope of the International Workshop on Scalable Ad Hoc and Sensor Networks (SASN '09) is to bring together a highly qualified group of researchers and developers interested in the design, development and evaluation of scalable ad hoc and sensor networks, so that they can share their results and experiences, exchange innovative ideas, and establish potential collaborations especially between the Academia and the Industry.

With the explosive proliferation of mobile communication and computing devices, the scalability property is becoming an increasingly popular 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.

The workshop will focus on fundamental challenges and issues in the fields of scalable ad hoc and sensor networks, and it will highlight the newest trends in this emerging area.

## **Topics of Interest:**

Original, unpublished contributions addressing application and architectures, systems and protocols design, development and analysis, in all areas related to scalable ad hoc and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

- congestion, scheduling and admission control
- routing, broadcasting and multicasting protocols
- transport-layer protocols for SASN
- 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
- joint source-channel coding and asymptotic scalability
- integration of ad hoc/sensor networks with infrastructure-based networks

- information-theoretic analysis of ad hoc/sensor networks
- scalable mobile, mesh and vehicular ad hoc networks
- opportunism and cooperation for SASN
- peer-to-peer and delay-tolerant networks
- modeling and simulation methodologies for large scale networks
- prototypes and testbeds design to investigate scalability
- challenges arising from new technologies (UWB, MIMO, beam forming, Cognitive Radio, etc.)

**Important dates:**

Abstract submission due: June 19, 2009  
 Paper submission due: June 26, 2009  
 Notification of acceptance: July 31, 2009  
 Camera-ready version due: September 11, 2009

**Submissions:**

Authors are invited to submit full papers describing original research, unpublished and not currently under review by another conference or journal, via EDAS (<http://edas.info/newPaper.php?c=7701>).

The manuscripts should be written in English and follow IEEE two-column format with single-spaced, ten-point font in the text. The maximum manuscript length is six (6) pages including all text, figures and references.

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

**Proceedings:**

All the accepted papers will be included in the ICUMT 2009 main conference proceedings and published by IEEE Xplore.

Authors of selected outstanding papers will be invited to submit extended versions of their papers for consideration of publication in a special issue of the International Journal of Communication Networks and Distributed Systems (IJCNDIS).

**Committees:**

*Workshop Chair:*

Marcello Caleffi, University of Naples Federico II (Italy)

*Technical Program Chair:*

Luigi Paura, University of Naples Federico II (Italy)

*Technical Program Committee Members:*

Marcello Caleffi, University of Naples Federico II (Italy)

Ling-Jyh Chen, Academia Sinica (Taiwan)

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