

Call For Papers
International Journal of Sensor Networks (IJSNET)
**Special Issue on Advances in Theory and Applications of Wireless,
Ad Hoc, and Sensor Networks**

Wireless networks have gained much popularity in recent years due to their ease of accessibility and mobility. However, as the dimension of wireless devices decreases and the network density increases, energy and bandwidth resources become increasingly scarce and innovative networking solutions must be developed to overcome these challenges. Moreover, due to the large demand for wireless connectivity in different applications, wireless networks have evolved into various forms including wireless metropolitan networks, local area networks, mesh networks, ad hoc networks, and sensor networks, etc. Integration over heterogeneous systems becomes essential to fully capitalize on the functionalities and services they provide. In addition, advances in theory are required to achieve these goals and new applications may arise to leverage these advantages.

Subject Coverage: The topics of interest include (but are not limited to):

- PHY and MAC layer designs for wireless networks
- Resource management in wireless ad hoc and sensor networks
- Energy-saving protocols
- Mobility management
- Routing protocol design
- Coverage and connectivity
- Sensor design and implementation
- Data gathering primitives for wireless sensor networks
- Sensor network applications
- Network synchronization and positioning
- Topology control and management
- Network capacity and reliability
- WiMAX, LTE and next generation wireless cellular networks
- Multiple antenna and multichannel systems
- System modeling and performance evaluation
- Power control in wireless sensor networks
- Mobility, location, and handoff management
- QoS and multimedia applications
- Authentication, authorization, and security
- Peer-to-peer networking applications
- Secrecy and privacy issues in wireless networks

Important Dates:

Deadline for Submission: 15 January 2010

Acceptance notification - first round: 15 April 2010
(Including WASN2009 best papers)

Submission due date of revised papers: 15 May 2010

Notification of acceptance - second round: 15 July 2010

Camera ready papers due: 15 August 2010

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