



# CALL FOR PAPERS

## Special Issue of Elsevier Computer Communications on Wireless Mesh Networks

<http://www.cs.iusb.edu/~liqzhang/comcom/wimesh.htm>

Recently, wireless mesh networking is attracting significant interest from academia, industry, and standard organizations. With several favorable characteristics, such as dynamic self-organization, self-configuration, self-healing, easy maintenance, high scalability and reliable services, wireless mesh networks have been advocated as a cost-effective approach to support high-speed last mile connectivity and ubiquitous broadband access in the context of home networking, enterprise networking, or community networking. Despite recent advances, and the technical accumulations from more than a decade research efforts in mobile ad hoc networks, many research issues remain in all protocol layers of wireless mesh networks. For example, the introducing of mixed (infrastructure and ad hoc) architecture, multi-radio, multi-channel, and multi-antenna, have brought new challenges in the design of physical, MAC, and routing protocols. New application scenarios, such as all-wireless office, are urging researchers to address enhanced QoS support and various security issues in the design of different protocol layers for wireless mesh networks.

The special issue seeks original and unpublished papers that address theoretical and experimental work at all layers of wireless mesh networks. Papers are solicited from, but are not limited to, the following topics:

- Multi-radio and multi-channel wireless mesh networking
- MAC protocols (IEEE 802.11, 802.15, 802.16, 802.20, and beyond)
- Routing, scheduling, and channel assignment protocols
- Topology construction and maintenance
- Physical layer techniques
- Cross layer optimizations
- Testbed, prototype, and practical systems
- Methods and tools for wireless mesh networks simulation
- Modeling and performance evaluations for wireless mesh networks
- Security-related issues in wireless mesh networks
- QoS and multimedia communications over wireless mesh networks
- Intelligent system techniques for wireless mesh networks
- Novel applications of wireless mesh networks
- Multi-hop wireless communications and ad hoc networking
- Power-aware and energy-efficient protocols and algorithms
- Self-organization, self-configuration network architectures
- Wireless LAN, PAN, MAN and WAN
- Wireless ad hoc and sensor networks

### Submission Format and Review Guidelines:

Authors are invited to submit manuscripts reporting recent developments in the topics related to the special issue. The submitted papers must be written in English and describe original research not published nor currently under review by other journals or conferences. Parallel submissions will not be accepted.

All submitted papers, if relevant to the theme and objectives of the special issue, will go through an external peer-review process. Submitting a paper implies the willingness of reviewing one paper submitted to the special issue. Submissions should include an abstract, 5-10 key words, the e-mail address of the corresponding author. The paper length should not exceed 30 double-spaced pages including figures and references on 8.5 by 11 inch paper using at least 11 point font. For more information, please contact guest co-editors.

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### Important Dates:

Paper submission due:

**31 August, 2007**

Acceptance notification:

**31 December, 2007**

Camera-ready due:

**29 February, 2008**

Publication date:

**Spring / Summer 2008**

### Submission Guideline:

All manuscripts and any supplementary material should be submitted via the journal's online submission and peer-review system at <http://www.ees.elsevier.com/comcom>.

A prospective author should

1. Register in EES (follow the instructions on the site)
2. Select: Submit Manuscript from Main Menu
3. When choosing Article Type, please select the title of the special issue ("Wireless Mesh Networks" for this Special issue submission) you are submitting to.