



CALL FOR PAPERS

The Third International Workshop on Wireless Mesh and Ad Hoc Networks (WiMAN'09)

<http://www.cse.nd.edu/~darts/wiman09.html>

In conjunction with **IEEE ICDCS 2009**
Montreal, Quebec, Canada, June 26, 2009

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Important Dates

Paper submission due: **December 7, 2008**
Acceptance notification: February 7, 2009
Camera-ready due: March 7, 2009

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.

We plan to seek papers that address theoretical, experimental, and work in-progress at the all layers of wireless mesh and ad hoc networks, from application layer to the physical layer.

Topics covered by the workshop will include, but are not limited to, the following:

- Multi-radio and multi-channel wireless mesh networking
- Multi-hop wireless communications and ad hoc networking
- MAC protocols (IEEE 802.11, 802.15, 802.16, 802.20, and beyond)
- Routing, scheduling, and channel assignment protocols
- Quality of Services provisioning
- Multimedia communications over mesh and ad hoc networks
- Network deployment, localization, and synchronization
- Topology construction and maintenance
- Modeling and performance evaluations
- Cross layer optimizations
- Power-aware and energy-efficient protocols and algorithms
- Intelligent system techniques for mesh and ad hoc networks
- Testbed, prototype, and practical systems
- Novel applications of mesh and ad hoc networks
- Vehicular mesh and ad hoc networks
- Wireless sensor networks
- Self-adaptive and self-organizing wireless networking systems

Submission Guidelines and Publication:

Authors are invited to submit manuscripts reporting original unpublished research and recent developments in the topics related to the workshop. Submissions should include an abstract, key words, and the e-mail address of the corresponding author. The length of the papers should be limited to 6 pages in standard IEEE camera-ready format (double-column, 10-pt font). Authors must submit their papers through the CMT conference management site (<https://cmt.research.microsoft.com/WIMAN2009>). Submission of a paper should be regarded as an undertaking that, should the paper be accepted, at least one of the authors will register and attend the workshop to present the work.

All papers will be peer reviewed and the reviewers' comments will be provided to the authors. All accepted papers will be published in workshop proceedings by IEEE Computer Society Press and IEEE online library.