



# CALL FOR PAPERS

## International Workshop on Wireless Mesh and Ad Hoc Networks (WiMAN'08)

<http://www.cs.iusb.edu/~liqzhang/WiMAN2008/index.htm>

In conjunction with IEEE ICDCS 2008

Beijing, China, June 20, 2008

### Organizing Committee

#### Program Co-chairs

Christian Poellabauer, Univ. of Notre Dame, USA  
Liqiang Zhang, Indiana Univ. South Bend, USA

#### Program Vice Chair

Jun Luo, University of Waterloo, Canada

#### Publicity Co-Chairs

Yong Cui, Tsinghua Univ., China  
Frank Reichenbach, Univ. of Rostock, Germany

#### Program Committee

Wessam Ajib, UQAM, Canada  
Hasnaa Aniss, UQAT-LRCS, Canada  
Tricha Anjali, Illinois Institute of Tech., USA  
Malik Audeh, Tropos Networks, USA  
Stefano Avallone, Univ. of Naples, Italy  
Edoardo S. Biagioni, Univ. of Hawaii, USA  
Luciano Bononi, Univ. of Bologna, Italy  
Raffaele Bruno, IIT-CNR, Italy  
Fabian Bustamante, Northwestern Univ., USA  
Chun Tung Chou, UNSW, Australia  
Gang Ding, Olympus Comm. Tech., USA  
Junzhao Du, Xidian Univ., China  
Karoly Farkas, Univ. of West Hungary, Hungary  
Shinichi Honiden, Univ. of Tokyo, Japan  
Holger Karl, Univ. of Paderborn, Germany  
Abdelmajid Khelil, TU Darmstadt, Germany  
Sandeep Kulkarni, Michigan State Univ., USA  
Hyunjeong Hannah Lee, Intel Research, USA  
Guoqing Li, Intel Research, USA  
Qun Li, College of William and Mary, USA  
Hock Beng Lim, Nanyang Tech. Univ., Singapore  
Guoqiang Mao, Univ. of Sydney, Australia  
Shivajit Mohapatra, Motorola Labs, USA  
Luis Montestruque, EmNet LLC., USA  
Stephan Olariu, Old Dominion Univ., USA  
Paolo Santi, IIT-CNR, Italy  
Kaoru Sezaki, Univ. of Tokyo, Japan  
Haiying Shen, University of Arkansas, USA  
Weisong Shi, Wayne State Univ., USA  
Aaron Striegel, Univ. of Notre Dame, USA  
David Surma, Indiana Univ., USA  
Zhijun Wang, Hong Kong Polytech. Univ., China  
Takashi Watanabe, Shizuoka Univ., Japan  
Jianbin Wei, SDSM&T, USA  
Jiang (Linda) Xie, UNC at Charlotte, USA  
Yang Yang, Univ. College London, UK  
Yang Yu, Motorola Labs, USA

#### Advisory Committee

Hossein Hakimzadeh, Indiana Univ., USA  
Sharon Hu, Univ. of Notre Dame, USA  
Yingbo Hua, Univ. of California Riverside, USA  
Sitharama Iyengar, Louisiana State Univ., USA  
Bahar Sadeghi, Intel Research, USA  
Loren Schwiebert, Wayne State Univ., USA  
Wei Zhao, Rensselaer Polytechnic Institute, USA

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

#### Important Dates

Paper submission due: **December 14, 2007**

Acceptance notification: February 11, 2008

Camera-ready due: March 9, 2008

#### Submission Guidelines and Publication:

WiMAN'08 workshop will occupy one full day of ICDCS 2008. Technical papers describing original, previously unpublished research, not currently under review somewhere else, are solicited. The length of the papers should be limited to 6 pages in standard IEEE camera-ready format (double-column, 10-pt font) with at most two additional pages with extra charge. One additional page costs \$150. Please check the workshop webpage for detailed submission instructions. 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 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.