World of Wireless WoWMoM Mobile and Multimedia Networks

IEEE HotMesh 2012

IEEE COMPUTER SOCIETY

STINT The Swedish Foundation for International Cooperation in Research and Higher Education

June 25, 2012, San Francisco, CA, USA

The Fourth IEEE International Workshop on Hot Topics in Mesh Networking (IEEE HotMESH'12)

Preliminary CALL FOR PAPERS

The huge advances of wireless broadband technologies lay the foundation of a future where ubiquitous wireless network access will be anywhere at anytime. Wireless mesh networks are expected to be a key element of this future by providing a highly scalable, reliable and cost-effective wireless backbone to mobile devices, through a multi-hop wireless communication system. Although significant advances have taken place in the last few years, open questions and technical challenges still remain, in addition to how wireless mesh networks will integrate with and/or influence existing mobile and fixed broadband networks in order to create an integrated infrastructure that supports emerging services.

This workshop aims to bring together technologists researchers who share interest in the area of wireless mesh networks. The main purpose is to promote discussions on recent advances in the analysis, design and implementation of systems, protocols and services for next generation mobile mesh networks. It also aims at increasing the synergy between academic and industry professionals working in this area. We plan to seek papers that address theoretical, experimental, and work in-progress at all layers of mesh networks, from application to physical layer.

Topics of interest include, but are not limited to:
- Cross layer design and optimizations
- Capacity/Performance modeling and analysis
- Energy Saving and Green Mesh Networks
- Integration with mobile and fixed broadband networks
- Support for new and emerging services, such as multimedia content delivery, social networks and urban sensing
- Wireless mesh networks for Smart Grids and Smart Cities
- Multi-radio and multi-channel wireless mesh networking
- Medium access control protocols
- Mesh networks configuration and management
- Routing, scheduling, and channel assignment protocols
- Measurements in mesh networks
- QoS provisioning
- Mobility and location management
- Topology construction and maintenance
- Interference Control and Management
- Cognitive and radio-agile mesh networks
- Security and privacy in mesh networks
- Testbed, prototype, and practical systems

Papers should neither have been published elsewhere nor currently under review by another conference or journal. Guidelines on paper submission and formatting are available here. Please note that all accepted papers will need to have a full registration to the conference (there is no workshop only registration). In addition, no-shows of accepted papers at the workshop will result in those papers NOT being included in the IEEE Digital Library.

All submitted papers will be reviewed by up to three experts and if accepted, included in conference proceedings published by IEEE. At least one author of accepted papers is required to register at the full registration rate.

Important dates

Submission due: **EXTENDED**	Acceptance notification:	Workshop:
February 19, 2012	April 16, 2012	June 25, 2012

For more information: http://www.cs.kau.se/mesh2012