

## **MESH NETWORKING: Realizing the Wireless Internet(MESHNETS)**

In conjunction with WICON 2005

Sponsored by Create-Net

Budapest, Hungary, 10 July, 2005

<http://www.meshnets.org>

The long term success of the Internet depends on the establishment of an architectural framework that can meet the increasingly stringent demands placed on it by our mobile, 'always-connected' society. Wireless mesh networks are expected to be a key element of this future.

### **General Chairs:**

Shyam Chakraborty,  
*Helsinki University of  
Technology*

Sumit Roy,  
*University of Washington*

In a wireless mesh network, mobile devices or networks cooperatively establish multi-hop or even multi-radio communication paths in a dynamic environment, thus providing an alternative form of wireless connectivity. To achieve scalability and performance, such a network must manage complex trade-off's among factors such as coverage, throughput/delay and QoS support. Many such networks must also be able to support self-organizing and self-healing modes of operation.

### **Steering Committee:**

Buyurman Baykal,  
*Middle East Technical Univ.*

Shyam Chakraborty,  
*Helsinki University of  
Technology*

Imrich Chlamtac,  
*University of Trento*

Laura Marie Feeney  
*SICS*

The emergence of wireless PAN, LAN, and MAN technologies and an ever-growing demand for connectivity suggest that wireless mesh networks will play an important role in the future development of the Wireless Internet. The importance and timeliness of this topic is confirmed by the many start-up companies defining technology and products in this space, as well the work of standards bodies such as the IEEE 802.11s Working Group.

The goal of this workshop is to bring together an international group of academics, researchers, and industry practitioners to provide a view of the state-of-art, identify outstanding challenges and present current research on all aspects of mesh networks. The workshop will therefore include panel discussion and invited speakers, as well as papers selected through this CFP.

### **Technical Program Committee (preliminary)**

Buyurman Baykal  
Giuseppe Bianchi  
Imrich Chlamtac  
Shyam Chakraborty  
Laura Marie Feeney  
Xingang Guo  
Hari Mohan Gupta  
Martin Kubisch  
Youssef Iraqi  
Kihong Park  
Petar Popovski  
Rajarshi Roy  
Sumit Roy  
Jahangir Sarker  
Hiroyuki Yomo

In particular, we encourage submissions which make fundamental contributions to the theory and practice of wireless mesh networking, with emphasis on cross-layer protocol definition and implementation, especially in the context of programmable and software defined radio.

We therefore solicit papers on topics including, but not limited to, the following areas of relevance to mesh networks :

- Link and MAC layer design
- Cross-layer optimization
- Radio resource management and QoS support
- Programmable and software defined radios
- User mobility models and mobility management
- Topology deduction and network measurement
- Performance evaluation and modelling
- Experimental systems and User mobility models and mobility management;
- Security and authentication
- Interworking between wireless access and wireline backbone

### **SUBMISSION INSTRUCTIONS**

All submissions will be handled electronically via the URL above. Papers must not exceed 8-10 (A4 size) pages, including text, figures and references, with a minimum font size of 11pt. Submitted papers must be original unpublished work, not currently under review for any other conference or journal. Accepted papers will be published in the workshop proceedings. Papers of particular merit will be proposed for publication in ACM/Kluwer Journal of Mobile Networks and Applications (MONET).

***Submission deadline: 15 March, 2005***  
***Acceptance notification: 05 April, 2005***  
***Camera ready copy due: 15 May, 2005***