

June 4, 2013, Madrid, Spain

## The Fifth IEEE International Workshop on Hot Topics in Mesh Networking (IEEE HotMESH'13)

### GENERAL CHAIRS

**Stefano Avallone**, University of Naples, Italy

**Mario Gerla**, UCLA, USA

**Andreas J. Kassler**, Karlstad University, Sweden

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**Frank Zdarsky**, NEC Europe Ltd., Germany

### PROGRAM

#### **Workshop Opening (10:00am)**

Mario Gerla (UCLA, USA), Stefano Avallone (University of Naples, Italy), Andreas Kassler (Karlstad University, Sweden) and Mario Gerla (UCLA, USA)

#### **Session I: Keynote Speech (10:15am - 11:00am)**

**Keynote on “Test Driving the Energy Efficiency of a Wireless Network”**

Marco Ajmone Marsan (Politecnico di Torino)

#### **Coffee Break (11:00am – 11:30am)**

#### **Session II: Routing in Wireless Mesh Networks (11:30am - 1:00pm)**

**Finding More Efficient Multipoint Relay Set to Reduce Topology Control Traffic of OLSR**

Teruaki Kitasuka (Kumamoto University, Japan); Shigeaki Tagashira (Kansai University, Japan)

**Aggregation-aware routing in wireless multi-hop networks with frame aggregation**

Sascha Grübner (University of Leipzig, Germany); Christoph Lindemann (University of Leipzig, Germany)

**Link Quality Based Forwarder Selection Strategies For Reliable Network-Wide Broadcasts**

Björn Lichtblau (Humboldt University Berlin, Germany); Jens-Peter Redlich (Humboldt University Berlin, Germany)

#### **Lunch Break (01:00pm – 02:00pm)**

#### **Session III: Self Configuration, Channel Assignment**

**(02:00pm - 03:30pm)**

**Architecture of a Self Configuration Framework for 802.11-Based Multi-Radio Mesh Networks**

Sebastian Robitzsch (University College Dublin, Ireland); Sean Murphy (University College Dublin, Ireland); Piotr Szczechowiak (NextDayLab, Poland)

**i-POCA: Interference-aware Partially Overlapping Channel Assignment in 802.11-based Meshes**

Fawaz Saleem Bokhari (Punjab University College of Information Technology, Pakistan); Gergely Zaruba (University of Texas at Arlington, USA)

**Exploiting Smart Antennas for Spatial Reuse and Multiplexing in Wireless Mesh Networks**

Muhammad Irfan Rafique (Chemnitz University of Technology, Germany)

#### **Coffee Break (03:30pm – 04:00pm)**

#### **Session IV: Community Mesh Networks (4:00pm - 05:30pm)**

**Support Service for Reciprocal Computational Resource Sharing in Wireless Community Networks**

Ümit Büyüksahin (Universitat Politècnica de Catalunya, Spain); Amin Khan (Universitat Politècnica de Catalunya, Spain); Felix Freitag (Technical University of Catalonia, Spain)

**Receiver-driven routing for community mesh networks**

Axel Neumann (UPC, Spain); Leandro Navarro (Universitat Politècnica de Catalunya, Spain); Roger Baig (Fundació Privada per a la Xarxa Oberta, Lliure i Neutral Guifi.net, Spain); Pau Escrich (Guifi.net Foundation, Spain)

**Virtualized Multihop Access Networks for Disaster Recovery**

Quang Minh Tran (National Institute of Informatics, Japan); Kien Nguyen (National Institute of Informatics, Japan); Shigeki Yamada (National Institute of Informatics, Japan)

