

MESH 2012

Foreword

The Fifth International Conference on Advances in Mesh Networks [MESH 2012], held between August 19-24, 2012 in Rome, Italy, built on the previous editions to address the most challenging aspects for designing and deploying mesh networks.

The wireless mesh networks came to rescue the challenging issues related for predicting the location of a user and choosing the position of access points in wireless distributed systems. Basically mesh networks guarantee the connectivity through a multi-hop wireless backbone formed by stationary routers. There is no differentiation between uplink and downlink, but performance depends on the routing protocols. There are several challenging issues for properly exploiting wireless mesh networks' features, such as fast-link quality variation, channel assignments, performance, QoS-routing, scalability, slow/high speed mobile users, service differentiation, and others.

MESH 2012 also featured the following workshop:

- WMHLH 2012, First International Workshop on Wireless Mesh Networking for Human and Livestock Healthcare

We take here the opportunity to warmly thank all the members of the MESH 2012 Technical Program Committee, as well as the numerous reviewers. The creation of such a high quality conference program would not have been possible without their involvement. We also kindly thank all the authors who dedicated much of their time and efforts to contribute to MESH 2012. We truly believe that, thanks to all these efforts, the final conference program consisted of top quality contributions.

Also, this event could not have been a reality without the support of many individuals, organizations, and sponsors. We are grateful to the members of the MESH 2012 organizing committee for their help in handling the logistics and for their work to make this professional meeting a success.

We hope that MESH 2012 was a successful international forum for the exchange of ideas and results between academia and industry and for the promotion of progress in mesh networks.

We are convinced that the participants found the event useful and communications very open. We also hope the attendees enjoyed the historic charm Rome, Italy.

MESH 2012 Chairs:

Michael Bahr, Siemens AG - München, Germany

João Paulo Barraca, University of Aveiro, Portugal

Mathilde Benveniste, Wireless Systems Research/En-aerion, USA

Mats Björkman, Mälardalen University, Sweden

Eugen Borcoci, University "Politehnica" of Bucharest (UPB), Romania

Stefan Bouckaert, Ghent University - IBBT, Belgium

Petre Dini, Concordia University, Canada / China Space Agency Center - Beijing, China

Karoly Farkas, University of West Hungary / Budapest University of Technology and Economics,
Hungary

Andreas J. Kassler, Karlstad University, Sweden

Jens Myrup Pedersen, Aalborg University - Aalborg Øst, Denmark

Vladimir Sulc, Microrisc s. r. o. - Jicin, Czech Republic

Bernard Tourancheau, INRIA, France

Xinheng Wang, Swansea University, Swansea, UK