

CALL FOR PAPERS

Special Session on "QoS Provision in Wireless Networks"

organized in conjunction with

The 1st International Conference on Mobile Lightweight Wireless Systems (MOBILIGHT 2009)

18-20 May 2009, Athens, Greece

<http://www.mobilight.org/>

Important Dates:

Full Paper submission due: February 26, 2009
Notification of acceptance by: March 8, 2009
Camera ready paper due: March 15, 2009

Scope:

Today, wireless networks are considered to be a significant and emerging part of the communication networks field. Modern wireless networks must support all kinds of services, and perform similarly to the wired networks. The pertinent example of these demands is the need to efficiently serve the traffic generated by the emerging multimedia network applications. Thus, wireless networks have to be able to support Quality of Service (QoS). QoS support in wireless networks is a challenging issue. Significant research has taken place the last years on this area.

The Special Session will try to analyze modern methods of providing QoS support in wireless networks, explain all related issues, highlight the problems that arise when trying to provide different and demanding services over wireless networks, present the theoretical background, bring out related solutions given so far, and moreover, exhibit the latest research concepts and relevant ideas regarding near-future implementations.

Topics:

Topics of interest include, but are not limited to:

- The need for QoS support / Modern wireless network applications that require QoS support
- Traffic characteristics / classification / multimedia codecs features
- Cross-layer solutions
- Medium access control issues / concepts / algorithms / MAC protocols QoS support fundamentals (traffic differentiation, packet prioritization, resource allocation)
- Current technologies and representative examples of QoS supportive wireless networks [WPAN / WLAN / WWAN protocols, Cellular telecommunication networks, Satellite communications]
- QoS aware simulation techniques for wireless networks
- QoS support at the physical layer
- Power saving mechanisms
- Future integrated solutions (e.g. 4G networks)

Paper submission:

All submitted papers should describe original, previously unpublished work and will be subject to a rigorous peer-review. Accepted papers will be published by Springer in the MOBILIGHT Conference Proceedings and made available online through the Lecture Notes of ICST (LNICST). Please visit <http://www.mobilight.org/> for submission guidelines.

Special Session organizer:

Thomas Lagkas, University of Western Macedonia, Greece