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Conference

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Submission of papers due:
14 December 2009

Notification of acceptance:
15 February 2010

Final manuscript due:
15 March 2010

**Proposals for Workshops,
Special Sessions, Tutorials:**
14 December 2009



2nd Conference on Mobile Lightweight Wireless Systems



Call for Papers

10-12 May 2010, Barcelona, Spain

<http://www.mobilight.org>



Scope:

Wireless communications are becoming increasingly pervasive, as the number and spreading of portable wireless-equipped devices are exponentially increasing (ranging from smartphones to handheld game consoles, from personal digital assistant and personal navigation devices to still and video cameras). This results in an unprecedented request for lightweight, wireless communication devices with excellent usability and performance as well as the ability to support added-value services in a highly mobile environment - following the user everywhere he goes (at work, at home, while travelling, in a classroom, etc.). Besides attractive business opportunities this opens up exciting research and development areas.

This scenario clearly demands significant upgrades to the existing communication paradigm in terms of infrastructure, devices and services to support the ANYTIME, ANYWHERE, ANY DEVICE philosophy, introducing novel and fast-evolving requirements and expectations on research and development in the field of information and communication technologies. The core issue is to support wireless users' desire of 24/7 reliable network availability and transparent access to "their own" personalized services.

In this framework and motivated by the interdisciplinary competences needed to build successful lightweight wireless systems, the MOBILIGHT conference will provide an international forum where practitioners and researchers coming from the diverse areas involved in lightweight wireless systems design and deployment will be able to interact and exchange experiences, and thus realize cross-fertilization among the different worlds of academia, research centers and industry.

Prospective authors are invited to submit original and unpublished technical papers to the following tracks:

• TECHNOLOGIES & ARCHITECTURES

- Wireless communication standards (IEEE 802.11, 802.15, 802.16/WiMAX, 802.20, Bluetooth, ECMA-387, wireless USB, LTE-Advanced)
- Next generation mobile networks (including vehicular communication)
- Mobile multi-hop networks, ubiquitous coverage
- Ad hoc, sensor and cooperative networks
- Pervasive and wearable computing
- Green communication, energy saving
- Wireless transmission (multi-/single-carrier, multi-antenna, multi-user, modulation, coding)
- Lightweight devices architecture
- Internetworking and interoperability
- Protocol stack design (layering, cross-layering)
- Cognitive radio and software defined radio
- Self-organization and cooperation
- Compact and power efficient RF architectures for wireless devices

• MOBILE SERVICES

- Anytime, Anywhere, Any device
- Interactive multimedia
- Ambient assisted living
- Usability and HMI
- Location and context aware services
- Seamless roaming
- Emerging and next generation services

• BUSINESS MODELS, OPPORTUNITIES AND SOLUTIONS

- Architectures deployment
- Service provisioning
- Value-added services
- Business models
- Next generation lightweight devices
- Industry perspectives and market evolution
- Users' needs and requirements
- Available and emerging solutions

Workshops, Special Sessions and Tutorials

on the latest technical and business issues in topics of mobile lightweight wireless systems are encouraged. Information on submission of proposals, selection procedure etc. can be found on the conference website.

Publication: Accepted papers will be published by Springer in the MOBILIGHT Conference Proceedings and made available online through Springer Lecture Notes of ICST (LNICST). Selected high-quality papers will be invited to Special Issues in prestigious International Journals.

Submission: All submissions should be written in English with a maximum paper length of 12 single-column pages including figures. All papers must be formatted using Springer LNICST Authors' Kit (<http://manual.icst.org/index.php?page=conference-proceedings>) and submitted through the ASSYST paper management system (<http://assyst-online.org>).