



1st Conference on Mobile Lightweight Wireless Systems



Preliminary Call for Papers May 18-20, 2009, Athens, Greece

<http://www.mobilight.org>

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Overview:

Wireless communications are becoming increasingly pervasive, as the number and diffusion of portable wireless-equipped devices is exponentially increasing (ranging from cellular phones to handheld game consoles, from personal digital assistant and personal navigation devices to still and video cameras). This results into an unprecedented request for lightweight, wireless communication devices with high usability and performance able 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.), but also in opening exciting research, development and business opportunities.

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 network availability and transparent access to "their own" 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 many areas involved in lightweight wireless systems design and deployment will be able to interact and exchange experiences. The event will enable information exchange and cross-fertilization among the different worlds of academy, research centers and industry through the organization of specific and interacting tracks related to: (i) technology, including wireless (WPAN, WLAN, WMAN/cellular) as well as architectures and design methodologies to support seamless access to the communication facility; (ii) services, in the vision of "always on" requirement; (iii) business models, opportunities and solutions.

The conference invites submissions of original and unpublished works in the following Tracks:

• TECHNOLOGIES & ARCHITECTURES

- Wireless Communication Standards (IEEE 802.11x, Personal Area Networks, Bluetooth, IEEE 802.15, wireless USB, HiperLAN2, WiMAX)
- Cellular Networks (2.5G, 3G, 3G LTE, LTE-A)
- Ultra Wide Band
- Next Generation Networks
- Lightweight Devices Architecture (smartphones, PDAs)
- Internetworking & Interoperability
- Protocol Stack Design (Layering, Cross-layering)
- Performance Evaluation and Optimization
- Service-Oriented Architectures
- Cognitive Radios and Networks

• SERVICES

- Anytime, Anywhere, Any device
- Interactive Multimedia
- Voice and Voice over IP
- Usability and HMI
- Location 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

Submission of papers due:
November 30, 2008

Notification of acceptance:
February 16, 2009

Camera Ready papers due:
March 16, 2009

Conference Date:
May 18-20, 2009

Submission Instructions: All submitted papers 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 Springer Lecture Notes in Computer Science (LNCS). Selected high-quality papers will be invited to Special Issues in prestigious International Journals. Perspective papers must be formatted using Springer LNCS Authors' Kit (<http://www.icst.org/?page=conf&site=lnicst>) and submitted only through the COCUS conference management system (<http://www.cocus.eu/>).