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CALL FOR PAPERS

The IEEE WiMob conference is an international forum for the exchange of experience and knowledge among researchers and developers concerned with wireless and mobile technology. For seven years, the International IEEE WiMob conference has provided unique opportunities for researchers to interact, share new results, show live demonstrations, and discuss emerging directions in Wireless Communications, Mobile Networking and Ubiquitous Computing.

IEEE WiMob 2012 will be held at Casa Convalescència, Barcelona, Spain. The conference will be hosted by Universitat Politècnica de Catalunya (UPC). Barcelona is one of the most touristic towns in Europe and capital of the Modernism. In fact, Casa Convalescència building is one of the great works of Catalan Modernism, and was declared Historical Artistic Monument in 1978 and World Cultural Heritage Site by UNESCO in 1997.

IEEE WiMob 2012 is soliciting high quality technical papers addressing research challenges in the areas of wireless communications, wireless networking, mobility, nomadicity, ubiquitous computing, services and applications. Papers should present original work validated via analysis, simulation or experimentation. Practical experiences and Testbed trials also are welcome. IEEE WiMob 2012 will host three parallel symposiums, including but not limited to the following topics:

1. Wireless Communications

Broadband Wireless Communication Systems	Channel Measurement and Characterization
Signal Separation and Interference Rejection	Location Estimation and Tracking
Wireless Personal Communications	OFDM and CDMA Technologies and Systems
Multimedia Communications over Wireless	Resource Allocation and Interference Management
Advances in Satellite Communication	MIMO Channels
DSP Applications to Wireless Systems	Multirate and Multicarrier Communications
Adaptive Antennas for Wireless Systems	Link and System Capacity
Modulation and Coding	Spectrum Usage and Cognitive radio systems
Multiple Access Techniques	Cognitive and cooperative MAC
Multiuser Detection	

2. Wireless Networking, Mobility and Nomadicity

Mobile IP Networks	Energy-efficient protocols for wireless networks
Inter-working of 2G, 3G and 4G Wireless Networks	Green wireless network architectures and communication protocols
Security, Privacy and Authentication in Mobile Environments	Opportunistic networks
Cellular Systems, PCS Modeling and Configuration	Vehicular wireless networks
Wireless Sensor Networks	Wireless Mesh networks
Cross-layer Design and Optimization	Delay Tolerant Networks
Cross-layer security	Integration of ad hoc networks with wireless access networks
Congestion and Admission Control	QoS support for mobile networks
Mobility patterns, Location and Handoff Management	RFID networks and protocols
Design and Analysis of Wireless LAN/WAN	B3G/4G Systems, WiMAX, WLAN, WPAN
Wireless multicasting, broadcasting and geocasting	Optimization models and algorithms

3. Ubiquitous Computing, Services and Applications

Emerging Wireless/Mobile applications	Portable Devices and Wearable Computers
System prototypes, real deployments and experimentation	Passive, Active and Smart Tags for Ubiquitous Computing
Cognitive Radio applications and spectrum management	Context and Location aware applications
Resource and service discovery	Data replication and dissemination in mobile networks
Mobile Social Wireless Networks	Mobile Urban Sensing and Crowd-sensing
Opportunistic Applications	Data gathering, fusion, and dissemination in WSNs
Gaming Applications in Ubiquitous Computing Environments	Operating system and middleware support for mobile computing
Intelligent Transport Systems applications	Wireless communications to vehicle-to-grid applications
Multimedia over Wireless Networks	Wireless telemedicine and e-health services
Network Coding in wireless networks	Content distribution in wireless home environment
Security, Privacy and Infrastructure for Ubiquitous Computing	Service oriented architectures, service portability, P2P
Green computing in wireless networks	

All accepted papers will be published in the conference proceedings and by the IEEE, and will be accessible via **IEEE Xplore Digital Library**. Authors are required to submit fully formatted papers (PDF), with graphs, images, and other special areas arranged as intended for the final publication. Papers should be written in English conforming to the IEEE standard conference format (8.5" x 11" - US letter, Two-Column). The final manuscript for publication will be limited to 8 IEEE pages.

WiMob 2012 is using the **EDAS Conference Management System** to manage the paper submission process.

IMPORTANT DATES

Papers due:	**May 16, 2012**
Notification of acceptance:	**July 1, 2012**
Camera ready paper due:	**July 20, 2012**
Advance registration:	**September 08-10, 2012**

More instructions are available at the web page: **http://conferences.computer.org/wimob2012/index.html**