

# EUROPEAN WIRELESS 2010

April 12-15, 2010 | IMT Lucca, Italy

## CALL FOR PAPERS

The 16th European Wireless Conference will take place in the city of Lucca, heart of Tuscany, Italy, from April 12 to April 15, 2010 and will be hosted by the IMT Institute for Advanced Studies ([www.imtlucca.it](http://www.imtlucca.it)), a post-graduate school recently founded in Lucca, which awards PhD degrees to a restricted group of outstanding students from all over the world.

The 2010 edition of the conference will revolve around a main theme: "Towards the Future Internet". One of the key objectives of research in wireless communication, and notably the main one of 4th-generation cellular/mobile networks, is full integration of wireless segments into the all-IP pervasive and ubiquitous network of the future, regardless of the nature (wired or wireless) of the physical media. Original contributions in any of the areas below are solicited. Accepted papers will be published in the Proceedings of EW 2010. Acceptance will be based on quality, relevance and originality. Proposals for special sessions and tutorials are also invited.

## AREAS OF INTEREST

### Transmission Techniques and Signal Processing

Modulation and Coding for Wireless Communications  
Signal Processing for Wireless Communications  
Synchronization, Channel Estimation, Equalization  
Iterative Detection and Processing  
MIMO Systems, Space-Time Coding, Diversity  
Fundamental Limits, Information Theory  
Multiple Access Schemes, Multiuser Detection Algorithms  
Interference Mitigation and Management Techniques  
Network Coding and Cooperative Diversity and Processing  
Adaptive Systems  
OFDM and OFDMA  
Localization and Positioning  
Source and Joint Source/Channel Coding  
Physical Security  
Resource Allocation and Game Theory  
Spectrum Sensing and Signal Parameters Estimation

### Radio Channel and RF Subsystems

Radio Channel Measurements  
Radio Channel Modeling and Estimation  
Antenna Issues in Wireless Communications  
Smart Antennas and MIMO systems  
Compact Antennas for Mobile Terminals  
Modeling and Mitigation of RF System Imperfections

### Wireless Networking

Ad-hoc and Mesh Wireless Networks  
Transport Layer Issues in Mobile and Wireless Networks  
Cross-layer Issues  
Protocols and Architecture for Wireless Networks  
Radio Resource Management  
Mobility Management and Billing Technologies  
QoS and Resource Allocation in Mobile Networks  
Security and Robustness in Wireless Networks  
Mobile/Wireless Networks Modeling and Simulation  
Heterogeneous Wireless Networks  
Wired-Wireless Integration

### Advanced Wireless Technology

Ultra-Wideband Communications  
Software Radio & Re-configurability, Cognitive Radio and Networks  
Cross-layer Design in Mobile and Wireless Networks  
Power Management for Small Terminals  
2G-3G-4G Migration, Convergence and Interworking  
WiFi, WiMAX, 3GPP LTE  
Wireless LAN/PAN/BAN  
Location-based Services and Positioning  
Wireless Broadband Mobile Access  
RFID  
Cooperative Techniques  
Experimental Systems  
Sensor Networks Technologies and Protocols  
Mobile Social Networks

## BEST STUDENT PAPER AWARDS AND PHD DEFENSE WORKSHOP

Papers bearing a PhD student as the first author will be considered for the European Wireless Best Paper Awards. Papers qualifying for the award shall be submitted to the Student Papers Co-Chairs. A special PhD Defense Workshop will be organized, with the participation of students who already have a dissertation proposal in which they outline the key issues they wish to address, along with applicable methodologies and strategies.

## SUBMISSION

All paper submissions will be handled electronically via the popular online tool EDAS <http://edas.info>. A specific submission page will be set-up in the general conference website.

## IMPORTANT DATES

November 8, 2009	Paper Submission
January 25, 2010	Notification of Acceptance
February 28, 2010	Camera-Ready Version Due
December 31, 2009	Proposal for Tutorial
February 15, 2010	Notification of Acceptance for Tutorial Proposals

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