

**European Wireless 2014**  
**Barcelona, Spain**  
**14 – 16 May 2014**

# Call for Papers



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The 20<sup>th</sup> European Wireless Conference (EW2014) will take place in Barcelona, Spain from 14 to 16 May 2014 and will be organized by the Centre Tecnològic de Telecomunicacions de Catalunya (CTTC) (<http://www.cttc.es>). CTTC is one of the leading telecommunication research institutions in Spain focusing on the lower layers of the communications protocol stack. CTTC is located close to Barcelona, a Mediterranean city well-known for its touristic attraction (architecture, culture, cuisine, weather, among many others).

The 2014 edition is aimed at addressing a key theme on **“Energy- and Spectrally-Efficient Broadband Communication Systems”**.

Acceptance of submitted papers will be based on quality, relevance and originality. Proposals for special sessions and tutorials are also invited. Proceedings of EW 2014 will be available on IEEEExplore.

## 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
- Interference Mitigation and Management Techniques
- Network Coding and Cooperative Diversity
- Adaptive Systems
- OFDM and OFDMA
- Localization and Positioning
- Source and Joint Source/Channel Coding
- Spectrum Sensing and Parameter Estimation

### WIRELESS NETWORKING

- Relay Based Cellular Networks
- Ad-hoc and Mesh Wireless Transport Layer
- Cross-layer Issues in Mobile and Wireless Networks
- Cognitive Radio and Networks
- 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 Modelling and Simulation
- Heterogeneous Wireless Networks
- Wired-Wireless Integration

### SUSTAINABLE AND ADVANCED WIRELESS TECHNOLOGY

- Power Management
- Interference Alignment
- Resource Allocation and Game Theory
- Software Defined Radio & Re-configurability
- 2G-3G-4G Migration, Convergence and Interworking
- WiFi, LTE-A, 3GPP, 5G
- Wireless LAN/PAN/BAN
- Wireless Broadband Mobile Access
- Testbeds and Experimental Systems
- Mobile Social Networks

### RADIO CHANNEL AND RF SUBSYSTEMS

- Radio Channel Measurements/Modelling/Estimation
- Antenna Issues in Wireless Communications
- Smart Antennas and MIMO systems
- Compact Antennas for Mobile Terminals
- Modelling and Mitigation of RF System Imperfections
- Near Field Communications and RFID
- Ultra-Wideband Communications

### M2M and WS&AN

- Provisioning/Monitoring/Management of M2M Services
- Internet-of-Things and Semantic Sensor Networks
- Query Processing and Data Management in WS&AN
- Protocols and Mechanisms in WS&AN and M2M
- Real-world measurements in WS&AN and M2M
- Performance characterisation of M2M patterns
- Performance-oriented design and evaluation

## BEST STUDENT PAPERS AWARD AND JOURNAL SPECIAL ISSUE

Papers bearing a PhD student as the first author will be considered for the European Wireless Best Paper Award. Technical Program Chairs must be notified about papers qualifying for this award. Authors of selected papers will be invited to produce a journal (extended) version. This version will be considered for publication in a Special Issue of Wiley's Transactions on Emerging Telecommunications Technologies (ETT) in line with EW14's key theme.

## SUBMISSION

All paper submissions will be handled electronically via EDAS (<http://edas.info>). A specific submission page will be setup in the general conference website: [www.EW2014.org](http://www.EW2014.org)

## IMPORTANT DATES

Proposal for tutorials: 28<sup>th</sup> October 2013  
Proposal for special sessions: 2<sup>nd</sup> December 2013  
Paper submission: 5<sup>th</sup> February 2014  
Decision notification: 24<sup>th</sup> March 2014  
Camera-ready: 3<sup>rd</sup> April 2014

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