



Call for Papers
 First International Workshop on
Low-EMF radio-link technologies and wireless networks management
 In conjunction with ISWCS 2014, Barcelona, Spain, August 26-29, 2014

Scope and Objectives:

The main focus of the existing EMF exposure evaluation framework is conformance testing using worst-case scenarios, in which wireless networks equipment and mobile terminals transmit at maximum power levels, and uplink (UL) and downlink (DL) are treated separately. The mounting worries about the exposure of end-users to EMF could change the users' view of QoS, making EMF exposure an integral part of day-to-day network performance.

Hence, the Workshop is envisaged as an inter-disciplinary forum centred on the topic of low-EMF networking and its impact on future networks deployment. The Workshop is aimed at EMF exposure and Green Wireless experts, radio-link design and standardisation specialists, network designers, representatives of operators and manufacturers, as well as regulatory and standardisation bodies representatives (including 3GPP, CENELEC, IEEE). It is expected that representatives of funding bodies including the EC, as well as some of the existing research projects in the field of low-EMF technologies will find the Workshop useful.

Submissions are invited of regular papers presenting original research not previously published or currently under review by any other workshop, conference, or journal. The specific topics to be addressed should be related to low EMF mobile communications and include (but are not limited to):

- New DL/UL combined metrics of exposure
- New data models for EMF measurements
- Modelling and analysis of EMF exposure
- Fundamental EMF trade-offs (QoS, EMF exposure, and Green networking principles)
- Advanced EMF-aware Radio Resource Management
- Eliminating superfluous emissions: control signalling reduction and interference mitigation New Carrier Type for low EMF
- Cell Range Expansion, load balancing, and Cell DTX
- Massive MIMO/CoMP for low EMF communications
- Cell planning for low EMF
- EMF-aware access network and device selection
- Beam-forming and directive antennas for low EMF
- Cognitive, cooperative, and reconfigurable networks
- Multi-RATs
- Advanced hardware solutions for low EMF
- Millimetric-based communications
- Self-Organizing Networks and reinforcement learning

Important Dates:

Paper Submission: May 2, 2014
 Acceptance Notification: May 23, 2014
 Camera-Ready: June 25, 2014
 Workshop: August 26-29, 2014

Submission Guidelines:

Acceptance will be based on an extended abstract or a full paper (5 pages) following the standard IEEE manuscript template. Papers need to be uploaded by EDAS paper management system at

<https://edas.info/newPaper.php?c=17761>.

Accepted and presented papers will be published in the conference proceedings and submitted to IEEE Xplore as well as other Abstracting and Indexing (A&I) databases.

Organising Committee:

General Chair:

Ramón Agüero Calvo, University of Cantabria, Spain

General Vice-Chairs:

Milos Tesanovic, Fujitsu Laboratories of Europe Ltd., UK
 Antonio De Domenico, CEA LETI, France

Publicity Chairs:

Rahim Tafazolli, University of Surrey, UK
 Filipe Cardoso, INOV, Portugal

TPC Chair:

Joe Wiart, Orange Labs-Whist Lab, France

Technical Programme Committee:

Serge Bories, CEA LETI, France
 Massinissa Lalam, Sagem Communications, France
 Andreas Maeder, NEC Labs, Germany
 Mythri Hunukumbure, Fujitsu Laboratoires of Europe Ltd., UK
 Oliver Blume, Alcatel Lucent, Bell Labs, Germany
 Emmanuelle Conil, Orange Labs, France
 Antonio Clemente, CEA LETI, France
 Gunter Vermeeren, iMinds, Belgium
 Yoann Corre, Siradel, France
 Habib B.A. Sidi, Orange Labs, France
 Emil Slusanschi, University Politehnica of Bucharest, Romania
 Antonio Capone, Polytechnic University of Milan, Italy
 Paolo Di Lorenzo, University of Rome, Italy
 Fabien Heliot, University of Surrey, UK
 Giorgio Corbellini, Disney Research Zurich, Switzerland
 Vinay Suryaprakash, Technische Universität Dresden, Germany
 Pat Chambers, University of Surrey, UK
 Hugo Lehmann, SwissCom, Switzerland
 Kei Sakaguchi, Osaka University, Japan
 Kostas Pentikousis, EICT, Germany