

# Call for Papers

## 2010 International Workshop on Antenna Technology: Small Antennas, Innovative Structures and Materials

March 1–3, 2010, Lisbon, Portugal



[www.iwat2010.it.pt](http://www.iwat2010.it.pt)



instituto de telecomunicações



UNIVERSITY OF LIVERPOOL

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The International Workshop on Antenna Technology (iWAT) is an annual forum for the exchange of information on the progress of research and development in innovative antenna technology. It especially focuses on small antennas and applications of advanced and artificial materials to the antenna design. iWAT2010 is the continuation of a series of annual international antenna workshops held in Singapore (2005), White Plains, USA (2006), Cambridge, UK (2007), Chiba, Japan (2008), and Santa Monica, USA (2009)

The workshop is organized by Instituto de Telecomunicações, Instituto Superior Técnico –Technical University of Lisbon, co-sponsored by IEEE Portugal Section, and technically co-sponsored by IEEE AP-S, IET and the University of Liverpool.

### The topics of interest include but are not limited to the following:

#### *Small Antennas and Arrays*

- Adaptive (smart) arrays for mobile terminals
- Antennas on/in IC packages
- Co-design of antennas with RF front-end
- Miniaturization of antennas
- Embedded antennas
- Conformal antennas and arrays
- Compact arrays
- Reconfigurable antennas
- Printed antennas
- THz antennas
- MEMS/Nano technology for antennas
- Broadband or multiband antennas and arrays
- Measurement for antennas with small system ground planes
- Measurement for ultra-wideband (UWB) antennas
- Measurement for SAR of handheld devices
- Computer aided antenna design
- Numerical and optimization methods

#### *Innovative Periodic Structures and Materials*

- Electromagnetic bandgap (EBG)
- Photonic bandgap (PBG)
- Frequency selective surfaces (FSS)

- Electromagnetic anisotropy
- Left-handed materials (LHM)
- Artificial magnetic conductors (AMC)
- Fractal structures
- Bi-anisotropic materials
- Novel features of EM materials
- Smart materials
- Analysis and design of EM materials

#### *Applications*

- Wireless communication systems (handheld devices, base stations)
- 3G and beyond mobile wireless systems
- MIMO systems
- W-Bluetooth/W-LAN (PDAs, laptops)
- UWB communications
- GPS systems
- RFID/Sensors
- Wearable antennas
- Body-centric wireless communications
- Medical applications
- UWB radar systems
- Automotive antennas
- Millimeter wave systems
- Radar systems/Automotives

### Important Dates

- Deadline of paper submission : **October 14, 2009**
- Notification of Acceptance : December 15, 2009

### Paper Submission Guidelines

Authors MUST submit camera-ready papers **up to four A4 pages** including figures by the submission deadline via the workshop website. Related information and Templates will be available in the workshop website ( [www.iwat2010.it.pt](http://www.iwat2010.it.pt) ).

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