



COST IC1102 (VISTA) and COST IC1004 Joint Workshop

"Terminal Antenna Systems for 4G and Beyond"

Ghent, Belgium, Sep 25, 2013

CALL FOR PAPERS

Conventionally, mobile phones are mainly used for voice calls and text messaging. However, over the past few years, the world has seen tremendous growth in the use of smartphones for data-intensive applications such as Internet access, online gaming and video streaming. The latest figures show that up to two-thirds of Internet users rely on mobile broadband service for Internet access. From the antenna perspective, the introduction of multiple-input multiple-output (MIMO) technology in terminals can be seen as an important first step to achieve demand for increasing data rates (up to 1 gigabits per second for 4G networks), since it incurs no expense to spectrum or power. Along with MIMO, there are many other relevant antenna topics that are being addressed by researchers in order for terminals to support advanced services. As a case in point, antenna systems in future terminals can be made smart enough to adapt to environmental changes, including the user hand grip and multipath environment. We will welcome articles featuring innovative work in these or related topics, relevant to terminal antenna systems for 4G and beyond.

The goal of this COST IC1102 (VISTA)-COST IC1004 Joint Workshop is to gather researchers and industrial partners to share the latest results in the various issues of designing and evaluating terminal antenna systems for 4G and beyond wireless communication systems, which represent an interdisciplinary area involving antennas and propagation, signal processing, and communications/information theory aspects. In this open call, we solicit a **one-page abstract** from all interested researchers in the field. All submitted abstracts will go through a peer review process.

Authors of accepted abstracts will be invited to present their work in single-track oral sessions at the Joint Workshop, as well as to submit an extended version of their paper to a Special Cluster on the same topic for the **IEEE Antennas and Wireless Propagation Letters (AWPL)**, with submission deadline in October 2013. The final acceptance and publication of the invited contributions is subject to the AWPL review process, to be coordinated by the Joint Workshop Co-chairs. To facilitate the expected publication in AWPL, there will be no formal proceeding or publication from the Joint Workshop. Workshop registration can be performed on <http://www.cost-vista.eu/> for COST IC1102 (VISTA) members and <http://www.ic1004.org> for all others.

List of topics (not limited to)

MIMO terminal antennas design
Antenna decoupling techniques
Wideband/multiband antennas
Pattern/frequency reconfigurable antennas
Adaptive impedance matching
Antenna-channel interaction
Antenna-chassis interaction
Antenna-circuit integration
Terminal antenna/human body interactions
Terminal antenna miniaturization
Performance test methods for terminal antennas
Modeling of terminal antenna systems
Impact of antennas on algorithm performance
Exposure evaluation of terminal antennas

Instruction to Authors

Please use the Microsoft Word template provided with this call to submit your contribution by e-mail attachment to:
abstract@eit.lth.se

Important Deadlines

Abstract submission	July 21, 2013
Acceptance notification	August 2, 2013
Workshop registration	September 16, 2013

Organizing Committees

Co-chairs	Marta Martínez Vázquez Buon Kiong Lau
Local Organizers	Wout Joseph Christophe Craeye