Second Green Wireless Communications and Networks Workshop (**GreeNet**)

Co-located with IEEE VTC Spring 2011, Budapest, Hungary

Workshop Overview

The objective of this workshop is to discuss new technologies that can be exploited to improve the efficiency and sustainability of future wireless networks. One major area where advances may be made is in moving towards more heterogeneous wireless networks which employ a mix of network components, such as macro-cell base stations, wireless (fixed and/or mobile) relays, microcells, picocells and femtocells. A second important avenue of research relates to new technologies and algorithms that can be deployed within the radio of each device to reduce energy consumption. Examples of such technologies include efficient radio amplifiers, antennas and multiple input multiple output (MIMO) configurations as well as new energy saving physical layer techniques and packet scheduling algorithms.

Paper Topics

* Energy Efficient Wireless Network design

Efficient network architectures; Radio access networks**;** Network traffic engineering and QoS support; Network operation and management

* Enabling technologies

Physical layer techniques; MAC protocols; Cross-layer optimization; Cognitive networks

* Network components and devices

Low power devices; User terminal designs; Base station hardware architectures; Power management for user terminals and network devices

* Applications of wireless technologies

Wireless networking for smart grid and power management; Home working/smart office; Intelligent transport; Machine-to-machine communications; Regulatory issues; Applications to 3GPP/IEEE 802 standards

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Paper Deadline: 15 Nov 2010   Notification: 9 Jan 2011   Camera Ready: 15 Feb 2011

Workshop Website: *http://vtc11s-workshops.trackchair.com/track/863*