

**Monday, May 10, 2010**

08:00 - 09:00 **Registration**

09:00 - 09:30 **Opening remarks by General Chairs**

09:30 - 10:30 **Plenary talk - "Wireless Interference Networks: From Rate Regions to Business Opportunities"** by Eduard A. Jorswieck (Dresden University of Technology)

10:30 - 11:00 **Coffee break**

11:00 - 12:30 **Special Session on "Mobility Concepts and IMT-advanced (MOBILIA)"** organised by Faouzi Bader and Ramón Agüero

**Paper 1** *The Performance of MC- DS- CDMA System in Rayleigh Fading Channel with Non-Coherent Combining Schemes and MAI Interference*

**Paper 2** *Spectral Efficiency using Combinations of Transmit Antenna Selection with Linear Dispersion Code Selection*

**Paper 3** *A Reconfigurable Power Amplifier for Mobile WIMAX applications*

**Paper 4** *An Access Selection Prototype Based on IEEE 802.21*

**Paper 5** *Cross-System simulator for wireless lightweight systems*

**Paper 6** *Multi-hop extensions to heterogeneous access network selection*

12:30 - 13:30 **Lunch**

13:30 - 15:30 **Tutorial I - "Machine-to-Machine: An Emerging Communication Paradigm"** by Mischa Dohler, Thomas Watteyne and Jesús Alonso-Zárate

15:30 - 16:00 **Coffee break**

16:00 - 17:00 **Panel 1 - "Wireless Communications for improving security in high-speed railway transportation systems"** by Enrique Flores, Jesús M. González, Isabel Gallego and Elli Kartsakli

17:00 - 18:30 **1st European Symposium on "Mobility Management (EUMOBILE)"** organised by Tasos Dagiuklas and Christos Politis

**Paper 1** *Increasing the VoIP capacity through MAP overhead reduction in the IEEE 802.16 OFDMA Systems*

**Paper 2** *Multi-Radio Cooperative ARQ in Wireless Cellular Networks: A MAC Layer Perspective*

**Paper 3** *Enhanced Localization in Wireless Ad Hoc Networks through Cooperation*

**Special Session on "QoS Provision in Wireless Networks (QPWN)"** organised by Thomas D. Lagkas and Periklis Chatzimisios

**Paper 1** *TCP-Aware Forward Error Correction for Wireless Networks*

**Paper 2** *Delay Performance Analysis of a Cross-Layer Scheduler for Wireless LANs*

**Paper 3** *Access Network Selection in a Heterogeneous Environment using the AHP and fuzzy TOPSIS methods*

**Paper 4** *Adaptive Message Ferry Route (aMFR) for Partitioned MANETs*

**Paper 5** *Lightweight Mechanisms for Self-Configuring Protocols*

**Paper 6** *Analysis of the Energy Consumption of JavaScript Based Mobile Web Applications*

**Special Session on "Advanced Radio Access Techniques for Energy-Efficient Communications (MIMAX)"** organised by Ralf Eickhoff and Ignacio Santamaría

**Paper 1** *Equal Gain MIMO Beamforming in the RF Domain for OFDM-WLAN Systems*

**Paper 2** *A Framework for the Design Space Exploration of Software-Defined Radio Applications*

**Paper 3** *On the maximum efficiency of power amplifiers in OFDM broadcast systems with envelope following*

**Paper 4** *An Experimental MIH Platform for Testing Video Streaming Services across Heterogeneous Radio Access Technology Networks*

**Paper 5** *A Lightweight Macro-Mobility Framework*

**Paper 4** *Equal-Phase Beamforming Architecture for RF-MIMO Antenna Systems*

**Paper 5** *Optimal Channel and Power Allocation for Secondary Users in Cooperative Cognitive Radio Networks*

## Tuesday, May 11, 2010

08:00 - 09:00 **Registration**

09:00 - 10:00 **Plenary talk - "Security Challenges for Future Mobile Systems"** by Steve Purser (Head of Technical Department at ENISA)

10:00 - 10:30 **Coffee break**

10:30 - 12:30 **Special Session on "Security and Resilience in the Future Internet (SECURE)"** organised by Ioannis Askoxylakis, Konstantinos Markantonakis, Theo Tryfonas, Slawomir Gorniak, Damien Sauveron and Demosthenes Ikonomou

**Paper 1** *User Authentication Method and Implementation using a Three-Axis Accelerometer*

**Paper 2** *A Correlation Approach for Intrusion Detection and Diagnosis*

**Paper 3** *A dynamic key agreement mechanism for mission critical mobile ad hoc networking*

**Paper 4** *Stealthy Compromise of Wireless Sensor Nodes with Power Analysis Attacks*

**Paper 5** *Sensor Networks ? Critical Infrastructure for Society? Challenges for Resilience, Security and Interoperability*

**Paper 6** *Wide--Strong Privacy--Preserving RFID Authentication Protocols*

**Paper 7** *A preliminary study of a wireless Process Control Network using emulation testbeds*

12:30 - 14:00 **Lunch**

14:00 - 15:00 **Plenary talk - "Cognitive radio systems: technical challenges and ongoing regulatory activities"** by Marja Matinmikko (VTT Technical Research Centre of Finland)

15:00 - 16:00 **Panel 2 - "Future and applications of wireless mesh networks"** by Xavier Perez Costa, Josep Paradells, Raffaele Bruno and Andreas Kassler. Chair: Albert Banchs, IMDEA Networks

**Special Session on "Self-Management in Future Internet Wireless Networks (SELFNET)"** organised by Ioannis P. Chochliouros, Maria Belesioti and Evangelos Sfakianakis

**Paper 1** *CogProt: A Framework for Cognitive Configuration and Optimization of Communication Protocols*

**Paper 2** *Topology Control in Self-Managed Wireless Networks*

**Paper 3** *Autonomicity and Self-Manageability Techniques in the Scope of the Future Internet Evolution*

**Paper 4** *Design and Development of Essential Use-Cases for Self-Management in Future Internet Wireless Networks*

**Paper 5** *Towards Dynamic Protocol Configuration and its Configuration and Control in Autonomous Communication Environments*

**Paper 6** *Handover Management in Future Collaborative Wireless Networks: The HURRICANE Approach*

16:00 - 16:30 **Coffee break**

16:30 - 18:00 **Special Session on "Distributed Wireless Networking Experimental Infrastructure for Optimization and Convergence (ICARUS)"** organised by Fernando López Aguilar

**Paper 1** Dynamic Call Admission Control for Enhanced GoS of UGS Connections during "Busy Hour" in WiMAX

**Paper 2** Mutual Information Effective SNR Mapping Algorithm for Fast Link Adaptation Model in 802.16e

**Paper 3** Virtual Distributed Simulation Platform for the Study and Optimization of Future Beyond 3G Heterogeneous Systems

**Paper 4** A Dual Head Clustering Mechanism for Energy Efficient WSNs

**Paper 5** Measuring the Closed-Loop Throughput of 2x2 HSDPA over TX Power and TX Antenna Spacing

20:00 - 22:00 **Social dinner**

**Special Session on "Critical Information Infrastructure Protection: Where We Stand and Where We Are Heading To (CIIP)"** organised by Luigi Romano, Salvatore D'Antonio, Neeraj Suri, Abdelmajid Khelil and Rafal Renk

**Paper 1** Benchmarking of P2P Technologies from a SCADA Systems Protection Perspective

**Paper 2** Improving Wireless Sensor Network Resilience with the INTERSECTION Framework

**Paper 3** Trust Management in Monitoring Financial Critical Information Infrastructures

**Paper 4** Using MPLS in a Wireless Mesh Network to improve the resiliency of SCADA systems

**Paper 5** Fusion of Bayesian and Ontology Approach Applied to Decision Support System for Critical Infrastructures Protection

### Wednesday, May 12, 2010

08:00 - 09:00 **Registration**

09:00 - 10:30 **Special Session on "Advanced Wireless Technologies for a Converged Ultra-broadband Home Network (OMEGA)"** organised by Oliver Hoffmann, Jean-Philippe Javaudin, Mike Wolf and Changsoon Choi

**Paper 1** OMEGA: New use cases for future Home Networks

**Paper 2** Adaptive Filter Bank Modulation for Next Generation Wireless In-Home Networks

**Paper 3** Challenges in Gbps Wireless Optical Transmission

**Paper 4** An Efficient Power Control Algorithm for Supporting Cognitive Communications in Shared Spectrum Areas

10:30 - 11:00 **Coffee break**

**Special Sessions on "Advances on Indoor Positioning and Multiuser Scheduling (NEWCOM++)" and "Relay-based Next Generation Wireless Broadband Networks and Associated Components (REWIND)"** organised by Ana Isabel Pérez-Neira, Kostas Voudouris and Panagiotis Tsiakas

**Paper 1** TOA Estimation in UWB: Comparison between Time and Frequency Domain Processing

**Paper 2** Trade-off between Feedback Load for the Channel State Information and System Performance in MIMO Communications

**Paper 3** Evolution of Spatial and Multicarrier Scheduling: Towards Multi-cell Scenario

**Paper 4** Multi-hop Relay in Next Generation Wireless Broadband Access Networks: An Overview

11:00 - 12:30 **Plenary talk - "LTE-Advance evolution to match explosion of mobile data traffic"** by Luis Miguel Campoy (Telefónica I+D)

12:30 - 13:30 **Lunch**

13:30 - 16:00 **Tutorial II - "Radio Communications: From the Basics to Future Developments"** by Andrea Tonello, Stefan Nowak, Oliver Hoffmann, Holger Rosier and Sebastian Max

16:00 - 16:30 **Coffee break**

16:30 - 18:30 **Workshop on "Advanced PhYsical Layer Optimization Methods for energy-efficient wireless systems (PHYLOM)"** organised by Sergio Gil-Lopez and Sancho Salcedo-Sanz

**Paper 1** Joint Turbo Coding and Source-Controlled Modulation of Cycle-Stationary Sources in the Bandwidth-Limited Regime

**Paper 2** Harmony Search Heuristics for Quasi-Asynchronous CDMA Detection with M-PAM Signalling

**Paper 3** Cross-layer Clustering Optimization in Mobile Networks Using Evolutionary Algorithms

**Paper 4** A Case Study of Parameter Control in a Genetic Algorithm: Computer Network Performance

**Paper 5** On the Application of a Novel Grouping Harmony Search Algorithm to the Switch Location Problem

**Paper 6** Adaptive Weighted Round Robin Scheduling (AWRRS) for optimization of the wireless medium virtualisation

**Paper 7** Robust Wireless Network Coding - An Overview

18:30 - 19:00 **Closing Session**

**Workshop on "User Adaptive Systems for Mobile Wireless Systems (UAS)"** organised by Ondrej Krejcar, Jiri Horak and Marek Penhaker

**Paper 1** Localization in Real GSM Network with Fingerprinting Utilization

**Paper 2** Customized Contents service over a DVB-SH/3G Network

**Paper 3** Measurement and Visualization of ECG on Mobile Monitoring Stations of Biotelemetric User Adaptive System

**Paper 4** Complex Mobile User Adaptive System

**Paper 5** The Indoor Orientation of Autonomous Mobile Devices for Increasing Human Perspective

**Paper 6** Architecture Design of Mobile Telemetry Systems for Ambient Assisted Living