ICT-MobileSummit 2009

Final Programme

Santander - *Spain*

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10 - 12 June 2009

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Introduction

ICT-MobileSummit 2009 Conference & Exhibition takes place 10 - 12 June 2009 in Santander, Spain. This is the eighteenth in a series of Annual Conferences supported by the European Commission, which regularly attracts over 600 delegates from industry and research to share experiences and research results, identify future trends, discuss business opportunities and identify opportunities for international research collaboration under the ICT Theme of Framework Programme 7 (FP7). It will thus contribute to showcasing European research in the field, and position it within the multiplicity of related initiatives supported in other regions of the world.

ICT-MobileSummit 2009 will address all the challenges of building the Future Internet, which will be based on mobile, wireless and fixed broadband communications infrastructures. The impact of such Future Networks on the underlying Internet infrastructure will continue to be emphasized in the **2009** Summit. Technology enabling services and applications for billions of users involving trillions of interconnected potentially mobile devices will be addressed at the event.

The Scientific Programme incorporates all the key constituents of future communication networks including the themes Radio Access and Spectrum, Converged and Optical Networks, and Future Internet Technologies.

Supported by the European Commission and eMobility, the **ICT-MobileSummit's** reputation is based on high quality paper and panel sessions that showcase original results in all areas of wireless communications systems and networks, including Mobile and Fixed, Terrestrial and Satellite.

The goals of the **ICT-MobileSummit** are Community Building to facilitate research cooperation and successful exploitation of research results, to stimulate take-up of RTD results by industry, to promote knowledge sharing between commercial and research organisations and to exchange experiences about the current state of the art at a sectoral, national or regional level.

Who will you meet?

ICT-MobileSummit 2009 Conference & Exhibition attracts practitioners and researchers from leading commercial and research organisations around the world. Unlike many research conferences, **ICT-MobileSummit 2009** provides an opportunity to meet with senior managers, practitioners, project managers, software engineers and researchers. Delegates and speakers attend to share knowledge, experience and lessons learnt, and network with their peers from around the world.

ICT-MobileSummit 2009 Conference & Exhibition also provides the unique opportunity to identify partners and opportunities to co-operate in international research projects co-funded by the European Commission under Framework Programme 7 (FP7) and in particular, the FP7-ICT Theme.

The Venue

ICT-MobileSummit 2009 Conference & Exhibition takes place in Palacio de La Magdalena, Santander.

The Programme

The 3-day programme features an invigorating mix of case studies and technical papers. As well as three plenary sessions and panel sessions focused on Future Internet and Spectrum Regulation, delegates may participate in 30 thematically focused parallel sessions featuring different aspects of Radio Access and Spectrum, Converged and Optical Networks, and Future Internet Technologies.

The Conference Programme is complemented by a demonstration and technology exploitation focused Exhibition, a Welcome Networking Reception which will take place on Wednesday 10 June 2009 and a Conference Dinner on Thursday 11 June 2009.

The Conference Programme is subject to change and the **ICT-MobileSummit 2009** Organising Committee reserves the right to alter the contents, venue and/or speakers. The Final Programme will be published in April. Please view the Online Programme for the most up-to-date information.

Networking

Networking is a key feature of the **ICT-MobileSummit** Conference Series. Paper sessions are designed to maximise knowledge sharing by providing time for interactive discussions during the conference programme itself. Coffee breaks will take place in the Exhibition area to maximise exposure for technology demonstrations and posters and to facilitate informal one-on-one and small group discussions following paper or poster sessions. Social events are designed to facilitate informal discussion.

There are a number of dedicated networking areas around the venue with tables and chairs to facilitiate short informal meetings.

The Delegate Showcase on the Conference Portal allows registered delegates, speakers and exhibitors to publish their own short profile and research interests to facilitate networking before, during and after the conference. Leverage this functionality to contact potential partners in advance and arrange to

meet during the conference.

Conference Proceedings

The **ICT-MobileSummit 2009** Conference Proceedings will be published on CD-ROM and the Conference Portal. Each delegate will receive a free copy of the conference proceedings at Registration.

Following the conference, registered delegates will have access to all PowerPoint presentations, which will be published on the Conference Portal.

Security, Health and Safety

Please wear your name badge for all activities during **ICT-MobileSummit 2009**, as it is your identification and allows access to the facilities offered. While the Conference and Exhibition is not open to the general public, it is still necessary to take care of bags, personal computers and other personal belongings.

While security staff will be present at the conference venue, the Organising Committee cannot accept any responsibility for any losses incurred or personal health and safety. Delegates should ensure they have personal health insurance and take due care when exploring Santander. Any special needs or requirements should be notified to the Conference Secretariat as far in advance of the event as possible.

Hotel Accommodation

Conference rates have been negotiated for delegates and accompanying persons with four hotels in Santander that are within 5 - 10 mins walking distance from the conference venue: Hotel Real, Gran Hotel Victoria, Hotel Santemar and Hotel Hoyuela. More information on the Conference hotels is published on the portal.

Conference hotel accommodation should be booked online on the **ICT-MobileSummit 2009** Conference portal as part of conference registration.

Delegates are strongly recommended to book their accommodation early as it will be allocated on a first-come, first-served basis. Hotel accommodation can only be confirmed upon receipt of payment. For further information, please visit:

www.ICT-MobileSummit.eu/2009

Networking Reception - 10 June

The Organising Committee is pleased to announce that the City of Santander will host a Networking Cocktail Reception on Wednesday 10 June from 18:45 - 19:45 in the Exhibition area. Delegates should indicate participation in this event as part of online registration.

Conference Dinner - 11 June

The Organising Committee is pleased to announce that the Conference Dinner will be held on Wednesday 11 June at 20:00 in Hotel Real.

The venue has a fixed capacity and delegates are requested to confirm their participation no later than 26 May as part of online registration.

Pre-Conference Workshops

A number of pre-conference workshops will take place on Tuesday 09 June at the **ICT-MobileSummit 2009** venue: Palacio de La Magdalena.

Short **Radio Access and Spectrum Cluster meeting** followed by breakout into four full day RAS Workshops:

- Dynamic Spectrum Management in Cognitive Radio Networks

- Channel Coding and Cooperation in Wireless Communications

- Self-organisation for Beyond 3G Wireless Networks

- Carrier Grade Wireless Mesh Networks

- Putting Mobile Services into Context (morning)

- Future Internet Architectures: New Trends in Service Architectures

- Converged and Optical Networks Cluster meeting (afternoon)

It is necessary for all participants (presenters and delegates) in these workshops to pre-register in advance as part of online registration.

All participants will pay a contribution of 50 euro towards the cost of two coffee breaks, lunch and name badge. Delegates can attend multiple workshops during the day.

More information is available at

www.ICT-MobileSummit.eu

Organising Committee

- **Miriam Cunningham,** IIMC Ltd, Ireland
- **Paul Cunningham,** IIMC Ltd, Ireland
- **Prof. Luis Muñoz,** University of Cantabria, Spain

Conference Secretariat

IIMC Ltd
13 Docklands Innovation Park, 128 East Wall Road, Dublin 3, Ireland
Tel: +353 (0) 1 8170607
Fax: +353 (0) 1 8170606
e-mail: **secretariat@ICT-MobileSummit.eu**

Conference Portal & Delegate Showcase

www.ICT-MobileSummit.eu/2009

Plenary Session Speakers

Antti Peltomäki
European Commission

Joao da Silva
European Commission

Federico Gutiérrez-Solana
University of Cantabria

Eduardo Fernandez Rojo
Research in Motion

Christen Krogh
Opera Software

Philippe Martineau
Prologue

Katalin Szomolányi
Magyar Telekom

Dave Faulkner
BT

Plenary Speakers confirmed as at 26 May include:
- **Antti Peltomäki,** Deputy-Director General, DG Information Society and Media, European Commission
- **Dr Joao Schwarz da Silva,** Director, DG Information Society and Media, European Commission
- **Mr Bernardo Lorenzo Almendros,** DG Telecommunications, Ministry of Industry, Commerce & Tourism
- **Federico Gutiérrez-Solana Salcedo,** Rector, University of Cantabria
- **Ms. Cristina Álvarez,** Director of Technology and Services Development in Telefónica Spain
- **Eduardo Fernandez Rojo,** Director, Research in Motion, Spain
- **Christen Krogh,** Chief Development Officer, Opera Software, Norway
- **Prof. Ed Candy,** Technology Director, Hutchison 3G, United Kingdom
- **David Wood,** Catalyst & Futurist, Leadership Team, Symbian Foundation
- **Philippe Martineau,** Board Director, Prologue, France
- **Katalin Szomolányi,** Magyar Telekom, Hungary
- **Dave Faulkner,** BT, United Kingdom
- **Laurent Herault,** CEA, France

Technical Programme Committee

A distinguished Programme Committee has been formed to review and provide feedback on papers and presentations, and to chair sessions.

The **ICT-MobileSummit 2009** Technical Programme Committee includes
- **Henrik Abramowicz,** Ericsson, Sweden
- **Angeliki Alexiou,** Bell Labs, Alcatel-Lucent, UK
- **Prof. Albert Banchs,** Universidad Carlos III de Madrid, Spain
- **Prof. Nigel Baker,** UWE Bristol, United Kingdom
- **Maurice Bellanger,** CNAM, France
- **Prof. Nicola Blefari Melazzi,** Università degli Studi di Roma - Tor Vergata, Italy
- **Dr. Sergio Bovelli,** EADS Innovation Works, Germany
- **Jose Mª Cabero Lopez,** ROBOTIKER-Tecnalia, Spain
- **Luis Campoy,** Telefonica, Spain
- **Prof. Augusto Casaca,** Inesc-ID, Portugal
- **Prof. Luis Correia,** Instituto Superior Technico, Portugal
- **Miriam Cunningham,** IIMC Ltd, Ireland
- **Paul Cunningham,** IIMC Ltd, Ireland
- **Francois Daoust,** W3C, France
- **Prof. Klaus David,** Kassel University, Germany
- **Dr. Hakan Delic,** TU Delft, Netherlands
- **Prof. Panagiotis Demestichas,** University of Piraeus, Greece
- **Zoran Despotovic,** DOCOMO, Germany
- **Prof. Bart Dhoedt,** Ghent University - IBBT, Belgium
- **Dr. Ralf Eickhoff,** Dresden University of Technology, Germany
- **Atílio Gameiro,** Instituto Telecomunicacoes, Portugal
- **Pierpaolo Giacomin,** Hitachi Europe, France
- **Dr Savvas Gitzenis,** CERT, Greece
- **Laurent Herault,** CEA-Leti, France
- **Uwe Herzog,** Eurescom, Germany
- **Dr Dirk Jaeger,** Technical University Braunschweig, Germany
- **Jean-Philippe Javaudin,** France Telecom, France
- **Nigel Jefferies,** Vodafone, UK
- **Prof. Peter Jung,** Universität Duisburg-Essen, Germany
- **Stefan Kaiser,** DoCoMo Euro-Labs, Germany
- **Prof. Thomas Kaiser,** Leibniz University, Germany
- **Prof. Raimo Kantola,** Helsinki University of Technology, Finland
- **David Kennedy,** Eurescom, Germany
- **Dr. Klaus-Michael Koch,** Technikon Forschungs- und Planungsgesellschaft mbH, Austria
- **Wolfgang Koenig,** Alcatel Lucent, Germany
- **Dr. Ibrahim Korpeoglu,** Bilkent University, Turkey
- **Dr Vinay Kolar,** RWTH Aachen University, Germany
- **Georgios Kormentzas,** University of the Aegean, Greece
- **Dr Dirk Kutscher,** Universität Bremen, TZI, Germany
- **Erik G. Larsson,** University of Linköping, Sweden
- **Matti Latva-aho,** University of Oulu, Finland
- **Dr. Roberto Llorente,** UPV, Spain
- **Prof. Marco Luise,** University of Pisa, Italy
- **Prof. Garik Markarian,** RINICOM, United Kingdom
- **Prof. Ingrid Moerman**, IBBT-Ghent University, Belgium
- **Dr. Klaus Moessner,** CSSR, University of Surrey, UK
- **Dr. Werner Mohr,** Nokia Siemens Networks, Germany
- **Dr. Paulo Monteiro,** NSN/University of Aveiro, Portugal
- **Prof. Paul Müller,** University of Kaiserslautern, Germany
- **Prof. Luis Muñoz,** University of Cantabria, Spain
- **Norbert Niebert,** Ericsson, Sweden
- **Mícheál O'Foghlu,** TSSG, WIT, Ireland
- **Dimitri Papadimitriou,** Alcatel-Lucent Bell, Belgium
- **Riccardo Pascotto,** Deutsche Telekom, Germany
- **Dr. Radoslaw Piesiewicz,** Create-Net, Italy
- **Jean-Charles Point,** JCP-Consult, France
- **Prof. George C. Polyzos,** Athens University of Economics and Business, Greece
- **Dr Mikhail Popov,** Acreo AB, Sweden
- **Prof Ramjee Prasad,** Aalborg University, Denmark
- **Prof. Josep Prat,** UPC, Spain
- **Mirko Presser,** University of Surrey, UK
- **Ronald Raulefs,** DLR, Germany
- **Janne Riihijarvi,** RWTH Aachen University, Germany
- **Maria Angeles Callejo Rodriguez,** TID, Spain
- **Susana Sargento,** University of Aveiro, Portugal
- **Dr. Oriol Sallent,** UPC, Spain
- **Reijo Savola,** VTT, Finland
- **Jossy Sayir,** FTW, Austria
- **Hans Schotten,** University of Kaiserslautern, Germany
- **Dr Julian Sesena,** ROSE Vision, Spain
- **Prof. Vasilios Siris**, FORTH-ICS, Greece
- **Prof Rahm Tafazolli,** University of Surrey, UK
- **Prof. Ralf Tönjes,** University of Applied Sciences Osnabrück, Germany
- **Prof. Peter Van Daele,** IBBT, Belgium
- **Prof. Hans Van den Berg,** TNO ICT, Netherlands
- **Prof. Alessandro Vanelli-Coralli,** University of Bologna, Italy
- **Dr. Liesbet Van der Perre,** IMEC, Belgium
- **Josep Vidal,** UPC, Spain
- **Prof. Konstantinos Voudouris,** TEI of Athens, Greece
- **Prof. Jiangzhou Wang,** University of Kent, UK
- **Dr Fiona Williams,** Ericsson, Germany
- **Prof. Djamal Zeghlache**, Institut National des Telecommunications, France
- **Prof. Sven Zeisberg,** University of Applied Sciences Dresden, Germany

Wednesday, June 10, 2009

1 DAY

09:00   Plenary 1a   Welcome Address

Chair: Joao da Silva, European Commission, Belgium

Welcome
Paul Cunningham, IIMC Ltd, Ireland & Prof. Luis Muñoz, University of Cantabria, Spain

Mr Federico Gutiérrez-Solana Salcedo, Rector, University of Cantabria

Mr Miguel Ángel Revilla Roiz, President of Cantabria

Mr Iñigo de la Serna Hernáiz, Mayor of Santander

Mr Bernardo Lorenzo Almendros, DG of Telecommunications, Ministry of Industry, Commerce and Tourism

Keynote Presentation
Mr Antti Peltomäki, Deputy Director-General, DG Information Society and Media, European Commission

10:00 Plenary 2a Mobile Future Internet - Where will we be 10 years from now?

Mobile Internet - A European Perspective
João da Silva, European Commission, Belgium

The Future of Telco. Where will the Customer Take Us?
Ms. Cristina Álvarez, Director of Technology and Services Development, Telefónica Spain

11:00 Coffee Break   Exhibition & Networking

11:30 Session 3a   Management of Cognitive Systems

Chair: Jiangzhou Wang, University of Kent, United Kingdom

A Case for Generic Interfaces in Cognitive Radio Networks
Vinay Kolar, Department of Wireless Networks, RWTH Aachen University, Germany

Cognitive Resource Management for Wireless LAN within the Home
Timothy Farnham, Toshiba Research Europe Ltd, United Kingdom

Dynamic Spectrum Access and Management for Wireless Home Networks
Zhou Wang, European Microsoft Innovation Center, Germany

Cognitive Pilot Channel: A Radio Enabler for Spectrum Awareness and Optimized Radio Resource Management
Jordi Perez-Romero, Universitat Politecnica de Catalunya, Spain

Ruled-based Algorithms for Self-x Functionalities in Radio Access Networks
Manfred Rosenberger, Deutsche Telekom Laboratories, Germany

11:30 Session 3b   Advanced Physical Layer Techniques

Chair: Jossy Sayir, FTW Austria, Austria

Advanced Technologies for Next-Generation WiMAX Systems: WiMAGIC Contributions
Guillaume Vivier, Sequans Communications, France

Use of Histograms at Decoder Outputs to Evaluate Performance of Turbo Codes
Shigeo Nakajima, Niigata Institute of Technology, Japan

First and Second Order Statistics of Synthetic Rain Attenuation Time Series
László Csurgai-Horváth, Budapest University of Technology and Economics, Hungary

Performance Evaluation of Non-Binary LDPC DAVINCI Codes
Stephan Pfletschinger, CTTC, Spain

DVB-C2 – a New Transmission System for Hybrid Fibre Coax Networks
Dirk Jaeger, Technical University Braunschweig, Germany

11:30 Special Session 3c   4WARD

Chair: Luis Muñoz, University of Cantabria, Spain

Towards A Future Internet Architecture
Norbert Niebert, Ericsson, Germany

Towards Interoperability among Virtual Networks in the Future Internet
Liang Zhao, TZI ComNets, University of Bremen, Germany

Network Management Architecture in the Future Internet
Majid Ghader, University of Surrey, United Kingdom

Paths to Mobility Support in the Future Internet
Philippe Bertin, Orange Labs, France

Analysis of Path Splitting and Migration in the Virtualisation of Mobile Substrates
Gorka Hernando, ROBOTIKER-Tecnalia, Spain

11:30 Session 3d   Gigabit Home and In-Building Networks

Chair: Mikhail Popov, Acreo AB, Sweden

Convergence at Inter-MAC Layer: First Implementation Analysis
Vincenzo Suraci, CRAT, Italy

Gigabit Home Networking with Large-core Polymer Optical Fibers
Silvio Abrate, Istituto Superiore Mario Boella, Italy

Guidelines to Building Future-proof Home Networks
Claus Popp Larsen, Acreo, Sweden

Performance Analysis of OFDM Modulation Formats for Multimode Direct Detection Optical Links
Roberto Gaudino, Politecnico di Torino, Italy

PLC Channel Transfer Function Models for the OMEGA ICT Project
Pascal Pagani, France Telecom Orange Labs, France

11:30 Poster Session 3e   Advanced Radio Technologies

Chair: Ralf Eickhoff, Dresden University of Technology, Germany

Performance of Short Polar Codes under ML Decoding
Erdal Arikan, Bilkent University, Turkey

Simplified RF Architectures for Analogue Antenna Combining
Ignacio Santamaria, University of Cantabria, Spain

Low Complexity Maximum Likelihood Detection in Zero-IF OFDM-based Transceivers
Liesbet Van der Perre, IMEC, Belgium

Multihop Relay Stations: An MRBS-RS Link-Level Performance
Konstantinos Voudouris, Technological Educational Institution (TEI) of Athens, Greece

Improving Downlink Performance by Reusing the Subcarriers within the Cell
Muhammad Ali Imran, University of Surrey, United Kingdom

24 GHz UWB-over-Fiber system for Simultaneous Vehicular Radar and Communications
Roberto Llorente, Universidad Politecnica de Valencia, Spain

Simulation Framework for Performance Evaluation of RF Antenna Combining Systems
Michael Wickert, Dresden University of Technology, Germany

COST IC0603 ASSIST: Coordinating the Antenna Research for Next Generation Radio System
Marta Martinez-Vazquez, IMST GmbH, Germany

Complexity Comparison of Non-Binary LDPC Decoders
Emmanuel Boutillon, UBS, France

3D Duo Binary Turbo Decoder Hardware Implementation
Timo Lehnigk-Emden, University of Kaiserslautern, Germany

Multilayer Spatial Multiplexing in Next-generation WiMAX
Alberto Tarable, Politecnico di Torino, Italy

13:15   Lunch   Exhibition & Networking

14:30 Special Panel Session 4a   Towards a Mobile-Friendly Internet

Chair: Paulo de Sousa, European Commmission, Belgium

Not-Mobile-IP: How to Change the Internet Protocol to Support Mobility
Dr. Krishan Sabnani, Senior Vice President Alcatel-Lucent Bell Laboratories, United States

It is Moving, Sensing, and Communicating: A View to Future Mobile Internet
Prof. Petri Mahonen, RWTH Aachen University, Germany

Internet Resource Pooling for Mobile Devices
Dr. Lars Eggert, Principal Scientist, Nokia Research Center, Finland

Mobility and the Internet: Quick Fixes or Clean Slate Solutions?
Dr. Heinrich Stüttgen, Vice President, NEC Laboratories Europe, Germany

Panel Discussion

16:15 Coffee Break	Exhibition & Networking

16:45 Session 5a   Cooperative and Distributed Algorithms

Chair: Ronald Raulefs, DLR e.V., Germany

Experimental Study of Spectrum Sensing Based on Distribution Analysis
Mohamed Ghozzi, EURECOM, France

An Asymptotical Approximation of the Outage Probability for Distributed MIMO Systems
Fabien Heliot, University of Surrey, United Kingdom

Distributed Routing and Power Allocation for IDMA Applied in Multi-Hop Wireless Networks
Hendrik Schoeneich, Qualcomm CDMA Technologies GmbH, Germany

Base Station Cooperation in Multiple Input Multiple Output (MIMO) Orthogonal Frequency Division Multiple Access (OFDMA) Systems
Defne Aktas, Bilkent University, Turkey

Power Allocation for multiuser Nonregenerative Cooperative Communication under Various Levels of Channel State Information
Reza Hoshyar, University of Surrey, United Kingdom

16:45 Session 5b   Radio Resource Management

Chair: Panagiotis Demestichas, University of Piraeus, Greece

Comparison of BER-based and SNR-based Chunk Allocation in OFDMA Systems
Huiling Zhu, University of Kent, United Kingdom

Requirements for Radio Resource Management in Multi-cellWiMedia Networks
Frank Leipold, EADS Innovation Works, Germany

Capacity Investigation of BFWA Networks Applying Adaptive Site Diversity Techniques
János Bitó, Budapest University of Technology and Economics, Hungary

QoE Evaluation of Scheduling Algorithms for NRT Services in LTE
Pablo Ameigeiras, University of Granada, Spain

Self-organising Radio Resource Management for Cellular Mobile Radio Networks using Power-Bandwidth Characteristics
Philipp Hasselbach, Technische Universitaet darmstadt, Germany

16:45 Session 5c   Future Internet - Routing and Measurement

Chair: Fiona Williams, Ericsson GmbH, Germany

Robustness in Next-Generation Network
Gianmarco Panza, CEFRIEL, Italy

Wireless Mesh Networking Framework for Fast Development and Testing of Network-level Protocols
Josep Mangues-Bafalluy, CTTC, Spainy

Overlay Multicast Assisted Mobility for Future Publish/Subscribe Networks
Konstantinos Katsaros, Athens University of Economics and Business, Greece

Semantic Unified Access to Traffic Measurement Systems for Internet Monitoring Service
Ángel Ferreiro, Telefonica Investigación y Desarrollo, Spain

Business Cases and Deployment Scenarios for Future Collaborative Wireless Networks
Artemios Andreou, MTN Cyprus, Cyprus

16:45 Session 5d   WDM and long-reach Passive Optical Networks

Chair: Peter Van Daele, IBBT - Ghent University, Belgium

Protection of Demands Against Single Link Failure in Two Layer Networks with Bacterial Evolutionary Algorithm
Peter Soproni, Budapest University of Technology and Economics, Hungary

A Long-reach Resilient Passive Optical Network for Scalable Access
Josep Prat, UPC Universitat Politècnica de Catalunya , Spain

Optical Networks: Connecting the Future Internet
Andrew Houghton, European Commission, Belgium

BONE: Your gateway to European Optical Networks Research
Peter Van Daele, IBBT vzw, Belgium

16:45 Poster Session 5e   Cognitive Radio Systems

Chair: Wolfgang Koenig, Alcatel-Lucent Deutschland, Germany

Decentralised Dynamic Spectrum Usage in WLAN Ad Hoc Network
Soamsiri Chantaraskul, CCSR, University of Surrey, United Kingdom

User Cooperation in Spectrum Sensing in Opportunistic Radio
Klaus Moessner, University of Surrey, United Kingdom

Analysis of Spectrum Band Aggregation in Opportunistic Radio using Game Theory
Rahim Tafazolli, University of Surrey, United Kingdom

Multiband Multimode High Data Rate UWB System Concept in 3-10/60 GHz Frequency Bands
Kai Dombrowski, TES Electronic Solutions, Germany

Functional Architecture for Cognitive Wireless Systems in the B3G World
Panagis Magdalinos, University of Athens, Greece

Awareness of User Behaviour in Cognitive Device Management
Yiouli Kritikou, University of Piraeus, Greece

Impact of User Correlation on Collaborative Spectrum Sensing for Cognitive Radio
Kamran Arshad, University of Surrey, United Kingdom

Autonomous Functionalities for Cognitive Radio
Kari Kalliojärvi, Nokia Corporation, Finland

Emerging Management Strategies for the Introduction of Cognition in B3G Wireless Systems
Aggelos Saatsakis, University of Piraeus Research Center, Greece

Enhancing Learning in Cognitive Radio Systems by means of Artificial Neural Networks
Kostas Tsagkaris, University of Piraeus Research Center (UPRC), Greece

18:30	End of Conference Day

18:40 - 19:40	Networking Reception in Exhibition

[6 - 7] F i n a l

2 DAY

Thursday, June 11, 2009

09:00 Plenary 6a The New Generation of Handset Operating Systems: What Impact for Mobile Network Evolution?

Chair: Joao da Silva, European Commission, Belgium

Smartphone's Operative Systems, Mobile Services and Market Implications
Eduardo Fernandez Rojo, Research in Motion, Spain

One Web
Christen Krogh, Opera Software ASA, Norway

Mobilising the Internet
Ed Candy, Hutchison 3G, United Kingdom

Challenges that Hinder Mobile Openness and Impact Prosperity
David Wood, Symbian Foundation, United Kingdom

Panel Discussion

11:00 Coffee Break Exhibition & Networking

11:30 Session 7a Relaying in Wireless Networks

Chair: Atílio Gameiro, University of Aveiro, Portugal

Capacity Comparison of Relay-Assisted Schemes with and without Direct Path
Sara Teodoro, Instituto de Telecomunicacoes, Portugal

The Single Relay Channel: Does Randomized Coding Increase Diversity?
David Gregoratti, CTTC, Spain

A Robust Network Coding Scheme over Two Way Relay Channel
Mohammad Sadegh Fazel Falavarjani, University of Surrey, UK

A Practical Semi-Distributed Relay Node Selection Algorithm for Simple Relaying Schemes
Vasile Bota, Technical University of Cluj-Napoca, Romania

Performance of Multicell Joint Processing Cellular Uplink in the presence of Relay Nodes
Muhammad Ali Imran, University of Surrey, United Kingdom

11:30 Session 7b Cognitive and Reconfigurable Systems

Chair: Matti Latva-aho, University of Oulu, Finland

A Reconfigurable Baseband Receiver Architecture Based on Time-Frequency Signal Processing
Thomas Hunziker, University of Kassel (UNIK), Germany

Investigation of Timescales for Channel, Rate, and Power Control in a Metropolitan Wireless Mesh Testbed
Vangelis Angelakis, FORTH-ICS, Greece

On Improving H264/AVC Adaptability to Handover Events in 802.16e Vehicular Networks
Jon Casasempere, TECNALIA-Telecom, Spain

Filter Bank Based Cognitive Radio Physical Layer
Markku Renfors, Tampere Univ. of Technology, Finland

A Study on Spectral Efficiency of Physical Layer over Cognitive Radio
Fotis Foukalas, University of Athens, Greece

11:30 Session 7c Future Internet - Link Layer Technologies

Chair: Albert Banchs, Universidad Carlos III de Madrid, Spain

Joint Multi-path Routing and Accountable Congestion Control
Marcelo Bagnulo, Universidad Carlos III de Madrid, Spain

The Acreo GMPLS Testbed – Current Functionality and a Path Towards a Multi-flavoured Ethernet Hierarchy
Pontus Sköldström, Acreo AB, Sweden

A MAC Layer Abstraction for Heterogeneous Carrier Grade Mesh Networks
Bernd Gloss, Bell Labs, Alcatel-Lucent, Germany

Hierarchical Ethernet Transport Network Architecture (HETNA)
Ran Giladi, Ben-Gurion University of the Negev, Israel

Towards Efficient Integration of Unidirectional Links into LMDs
David Wagner, Fraunhofer FOKUS - Fraunhofer Institute for Open Communication Systems, Germany

11:30 Session 7d Fixed Mobile Convergence

Chair: Jean-Charles Point, JCP-Consult, France

Specification of Optimized Handover Operations among Cooperative Networking Environments
Lambros Sarakis, National Center for Scientific Research "Demokritos", Greece

A Reinforcement Learning Solution for the Connection Admission Control
Silvano Mignanti, Sapienza Università di Roma, Italy

Dynamic Feedback Controlled Harmonic Suppression for Uncooled Dual Function Sensing and Communications Radio over Fibre Link
Michael Crisp, University of Cambrdige, United Kingdom

Stream-level, Fine Grained Session Control in IMS Environments
Rafael Morón, Telefónica I+D, Spain

High SNR Broadcast Channel Differential Capacity
Daniel Castanheira, Instituto de Telecomunicações, Portugal

11:30 Poster Session 7e Applications, Platforms and Middleware for Seamless Service

Chair: Roberto Llorente, Universidad Politecnica de Valencia, Spain

A Novel Scalability Adaptation Concept for Higher R-D Performances of Scalable Video
Gokce Nur, University of Surrey, United Kingdom

The Daidalos Mobile University - Concept and Validation
Juergen Jaehnert, Universität Stuttgart, Germany

Enabling IEEE 802.21 in a B3G Cellular Experimental Network
Michelle Wetterwald, Institut Eurecom, France

Performance Assessment of Hybrid Data Fusion and Tracking Algorithms
Stephan Sand, German Aerospace Center (DLR), Germany

13:15 Lunch Exhibition & Networking

14:30 Special Session 8a WINNER+

Chair: Werner Mohr, Nokia Siemens Networks GmbH & Co. KG, Germany

Radio Innovation Areas for IMT-Advanced & Beyond: WINNER+ System Concept
Afif Osseiran, Ericsson, Sweden

Flexible Spectrum Use for IMT-Advanced: WINNER+ Spectrum Concept
Jaakko Vihriala, Nokia Siemens Network, Finland

Advances in Device-to-Device Communications and Network Coding for IMT-Advanced
Eric Hardouin, Orange Labs, France

Coordinated MultiPoint Systems for IMT-Advanced in the Framework of the WINNER+ Project
Tommy Svensson, Chalmers University of Technology, Sweden

Channel Modelling for Radiated Testing of MIMO Capable Terminals
Pekka Kyösti, Elektrobit, Finland

14:30 Session 8b System Coexistence and Heterogeneous Access

Chair: Roberto Llorente, Universidad Politecnica de Valencia, Spain

Heterogeneous Access Networks: Study and Evaluation of Coexistence
Ana Sierra, Telefónica I+D, Spain

Cognitive Control Radio (CCR) - Enabling Coexistence in Heterogeneous Wireless Radio Networks
Kari Kalliojärvi, Nokia Corporation, Finland

A Novel Autonomous RAT Selection Algorithm for Non Real Time Services
Jordi Perez-Romero, UPC, Spain

Experimental Analysis of WiMedia-defined UWB and WiMAX 802.16e Coexistence in Personal Area Networks
Roberto Llorente, Universidad Politécnica de Valencia, Spain

Mobile Mediator Control Function: An IEEE 802.21-based Mobility Management and Access Network Selection Model
Karl Andersson, Luleå University of Technology, Sweden

14:30 Session 8c   Future Internet Architecture

Chair: Rainer Zimmermann, European Commission, Belgium

The EIFFEL Approach Towards Visions for a Future Networked Society
George Polyzos, Athens University of Economics and Business, Greece

Towards an Architecture for the Real World Internet
Martin Bauer, NEC Europe Ltd., Germany

Demanding Applications on Resource Constrained Mobile Devices through Thin Client Computing
Bert Vankeirsbilck, Ghent University, Belgium

Economic Traffic Management for Overlay Networks
Maria Angeles Callejo Rodriguez, TID, Spain

Enhanced Key Management Scheme for Securing Intra Domain Handovers in the Next Generation Mobile IP Networks
Klaus Moessner, University of Surrey, United Kingdom

14:30 Session 8d   Privacy and Security in the Future Internet

Chair: Bart Van Caenegem, European Commission, Belgium

Privacy-Aware Future Internet Architecture
Sophia Khavtasi, Telscom AG, Switzerland

A Semantic Framework to Anonymize Network Data and Define Their Acceptable Use
Giuseppe Tropea, CNIT, Italy

A Framework for Daily Emergency Services Support and Disaster Management in Next Generation Networks (NGNs)
Nelson Blanco, PDM&FC, Portugal

A Framework Supporting Extreme Emergency Services
Christos Politis, Kingston University, United Kingdom

14:30 Special Poster Session 8e   OMEGA

Chair: Jean-Philippe Javaudin, Orange Labs, France Telecom, France

Architecture Reference Model for Next Generation Home Networks
Jean-Philippe Javaudin, Orange Labs, France Telecom, France

Criteria and Factors Affecting Home Networks Deployment: Evidence from the ICT-OMEGA project
Dimitris Varoutas, University of Athens, Greece

Functional Analysis for Next Generation Home Networks
Marco Castrucci, University of Rome "Sapienza", Italy

Load Balancing Strategy in Heterogeneous Meshed Home Access Network
Vincenzo Suraci, University of Rome "Sapienza", Italy

16:15 Coffee Break   Exhibition & Networking

16:45 Special Panel Session 9a   Spectrum without Boundaries

Chair: Peter Stuckmann, European Commission, Belgium

Regulator Perspective
Klaus-Udo Marwinski, BNetzA, Germany

Operator Perspective
Stefan Mangold, Swisscom, Switzerland

Innovator Perspective
Andrew Stirling, Microsoft, United Kingdom

Manufacturer Perspective
Klaus Kohrt, Independent Consultant and Former Chairman UMTS Forum, Germany

Femtocells: Concept, Market Progress and Future Challenges
Simon Saunders, Chairman Femto Forum, United Kingdom

18:30   End of Conference Day

20:00   Conference Dinner - Hotel Real

09:00 Plenary 10a   Sustainable Communications

Chair: Mario Pickavet, Ghent University – IBBT, Belgium and Mikhail Popov, Acreo AB, Sweden

Priorities for Sustainability in Telecommunications Networks
Dave Faulkner, BT, United Kingdom

Sustainability of Mobile Network Solutions
Laurent Herault, CEA, France

Mobile Thin Client Computing and Energy Efficiency
Philippe Martineau, Prologue, France

Sustainable Mobile Communication – Challenges & Potential
Katalin Szomolányi, Magyar Telekom, Hungary

Panel Discussion

11:00 Coffee Break   Exhibition & Networking

11:30 Session 11a   Hardware Implementation of Wireless Technologies

Chair: Konstantinos Voudouris, Technological Educational Institution (TEI) of Athens, Greece

SDR Based Methodology for On-Board Communications Systems Design
Asier Alonso Muñoz, Tecnalia - Telecom, Spain

A Soft-Output Near-ML MIMO Baseband Receiver For 75Mbps+ SDR
Filip Louagie, IMEC, Belgium

Architecture of an Analog Combining MIMO System Compliant to IEEE802.11a
Zoran Stamenkovic, IHP, Germany

MIFA: Modified IFA Radiating Element for Small Handheld Devices
Oscar Gago, TTI Telecommunication and Information Technologies, Spain

Taking Advantage of the Envelope Statistics on a Polar Transmitter Design
Lorena Cabria, Universidad de Cantabria, Spain

11:30 Session 11b   Signal Processing in Wireless Communications

Chair: Stefan Kaiser, DoCoMo Euro-Labs, Germany

Ant Colony Optimization for Subcarrier Allocation in OFDMA-based Wireless Systems
Kostas Tsagkaris, University of Piraeus Research Center, Greece

Performance Evaluation of Wireless MIMO Radios
Ralf Eickhoff, Dresden University of Technology, Germany

Optimization and Parallelization of 40 MHz MIMO SDM-OFDM Baseband Processing to Achieve Real-Time Throughput Behavior
Liesbet Van der Perre, IMEC, Belgium

QO-STBC MIMO Wireless System with Bayes Decision Algorithm
John An, National Taiwan Ocean University, Taiwan

11:30 Session 11c   Future Internet Self-Management

Chair: Henrik Abramowicz, Ericsson, Sweden

Architectural Principles for Synergy of Self-management and Future Internet Evolution
Andrej Mihailovic, King's College London, United Kingdom

Self Configuration Architecture for Carrier Grade Mesh Network (CARMEN)
Burak Simsek, Fraunhofer Institute FOKUS, Germany

Instant Knowledge: a Secure Mobile Context-Aware Distributed Recommender System
Martin Helmhout, University of Southampton, United Kingdom

Demystifying Self-awareness of Autonomic Systems
Jens Tiemann, Fraunhofer FOKUS, Germany

Multi-Criteria Decision Making Enabling Self-Management and Migration to Future Internet Systems
Eleni Patouni, University of Athens, Greece

11:30 Session 11d — Service Adaptation & Service Platforms

Chair: Klaus Moessner, University of Surrey, United Kingdom

Federated Service Discovery
Silvano Mignanti, Sapienza Università di Roma, Italy

Quantifying System and Business Dynamics in Services and Service Platforms
Josip Zoric, Telenor R&I, Norway

Servery: Web Telco Marketplace
Lourdes Calvo Val, Téléfonica I+D, Spain

Guidelines for Mobile Web Content Adaptation by Third-party Proxies
Francois Daoust, W3C, France

SMEPP: A Secure Middleware for Embedded P2P
Jose L. Serrano, Tecnatom, S.A., Spain

11:30 Poster Session 11e — Wireless Networks

Chair: Luis Munoz, University of Cantabria, Spain

Homogeneous Wireless Sensor Networks Through SENSEI's Resource Concept
Nicola Bui, Consorzio Ferrara Ricerche, Italy

Implementation and Testing of Co-Operative Schemes on a Real-Time DSP-Based Testbed
Per Zetterberg, Royal Institute of Technology, Sweden

Packet Scheduling for Carrier Aggregation based LTE-Advanced System
Yajuan Li, Hisilicon Technologies, China

Unified Approach for Topology Control in IEEE 802.15.4 - based WSN
Petia Todorova, Fraunhofer FOKUS, Germany

Cell-ID Positioning in WiMAX Networks Analysis of the Clearwire Network in Belgium
Mussa Bshara, Vrije Universiteit Brussel, Belgium

Tracking a Large Number of Tokens: A Customised Prioritised Medium-access Protocol for Target Responses
Tobias Renk, Universitaet Karlsruhe (TH), Germany

QoS and Mobility in IEEE 802.16 networks in Heterogeneous Scenarios
Susana Sargento, Universidade de Aveiro, Portugal

Enhancing TCP Fairness and Stability in Multihop Ad hoc Networks
Rahim Tafazolli, University of Surrey, United Kingdom

Controlling the Handover Mechanism in Wireless Mobile Nodes Using Game Theory
Omar Raoof, Brunel University, United Kingdom

Communication for Air Traffic Management (ATM) in Northern Regions
Jan Erik Håkegård, SINTEF, Norway

Opportunistic Networking for Sensor Data Collection in Urban Environment
Flavio Fabbri, University of Bologna, Italy

Advanced Radio Resource Management for IMT-Advanced in the Framework of WINNER+ Project
Jose F. Monserrat, Universidad Politecnica de Valencia, Spain

iTETRIS: a Framework for Large-Scale Research on the Impact of Cooperative Wireless Vehicular Communications Systems in Traffic Efficiency
Ramon Bauza, University Miguel Hernandez, Spain

13:15 Lunch — Exhibition & Networking

14:30 Session 12a — Protocols for Mobile and Wireless Networks

Chair: Rahim Tafazolli, CCSR, University of Surrey, United Kingdom

QoS Guarantee over DQCA for Wireless LANs with Heterogeneous Traffic
Elli Kartsakli, Technical University of Catalonia (UPC), Spain

QoS in 4G Scenarios in Mobile Environments: Experimental Validation
Vitor Jesus, Instituto de Telecomunicacoes, Portugal

Initialization of Handover Procedure in WiMAX Networks
Zdenek Becvar, Technical University in Prague, Czech Republic

Adaptive Soft Handover Forwarding in Evolved HSPA Systems
Csaba Vulkán, Nokia Siemens Networks, Hungary

Iub/Iur HSDPA Congestion Control
Zoltán Nagy, Nokia Siemens Networks, Hungary

Forwarding Challenges and Solutions for a Publish/Subscribe Network
Dmitrij Lagutin, Helsinki Institute for Information Technology, Finland

14:30 Session 12b — Application & Service Enablers

Chair: Werner Mohr, Nokia Siemens Networks GmbH & Co. KG, Germany

Design and Implementation of Mobile Electronic Memos: a Tool to Capture and Share Information in Mobile Environments
Nicola Blefari Melazzi, University of Rome Tor Vergata, Italy

Rapidly Deployable Satellite Communications for Emergency Situations: the WISECOM Trials
Javier Mulero Chaves, German Aerospace Center (DLR), Germany

Evaluation and Choice of Adaptation Mechanisms in the Content Adaptor
Merat Shahidi, Kings College London, United Kingdom

Modular and Extendible Context Provisioning for Evolving Mobile Applications and Services
Michael Knappmeyer, University of Applied Sciences Osnabrueck, Germany

Plug & Play Multiradio Home Box
Eduardo Ortego Martinez, Telefónica Investigación y Desarrollo, Spain

14:30 Session 12c — Business Case Studies

Chair: Sergio Bovelli, EADS, Germany

Value Propositions for Self-x Functionalities in Future Wireless Networks
Vânia Gonçalves, IBBT-SMIT, Vrije Universiteit Brussel, Belgium

A General Architecture for Enabling and End User services in IMS
Robert Mullins, TSSG, Ireland

Business Modelling in Home Networks: the OMEGA case
Dimitris Katsianis, University of Athens, Greece

14:30 Session 12d — Putting Context in its Place

Chair: Ralf Tönjes, University Applied Sciences Osnabrück, Germany

Context Management Architecture for Future Internet Services
Madiha Zafar, Univeristy of The West of England, United Kingdom

Context-Aware Multiparty Networking
Jose Simoes, Fraunhofer FOKUS, Germany

Efficient Employment of Service Location Protocol in Multi-cluster Networks
Majid Ghader, University of Surrey, United Kingdom

Context-Aware Media Delivery Architecture
Vasos Vassiliou, University of Cyprus, Cyprus

Sense and Sens'ability: Semantic Data Modelling for Sensor Networks
Payam Barnaghi, University of Surrey, United Kingdom

16:15 — End of Parallel Sessions

16:30 Closing Plenary 13a — ICT-Call 5

Chair: João da Silva, European Commission, Belgium

Overview of Call 5 - ICT-2009.1.1: The Network of the Future
Andrew Houghton, European Commission, Belgium

Best Paper Award

Best Demonstration Stand Award

17:30 — End of Conference

P r o g r a m m e

10 - 12 June 2009

Registration Information

It is necessary for all **ICT-MobileSummit 2009** delegates to register online. Each delegate should be registered separately.

Conference Fees

Authors Fees (Due by 06 April)

• Authors   **€550**

Please note that the author fee is only available to accepted presenters in the Programme (*only one presenter per paper/poster*). Each presenter in the Programme should be unique. Co-authors who wish to participate should register as Delegates.

Delegates' Fees - Early Bird (Due by 06 April)

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Delegates' Fees - Full Fee from 07 April

• Delegate Full Price   **€700**

The Conference Fee includes:

• Entrance to all Plenary and Parallel Sessions
• Entrance to Exhibition
• Documentation with Proceedings on CD-Rom
• Three luncheons and refreshments at morning and afternoon breaks
• Welcome Networking Reception - Wednesday 10 June
• Cyber Café facilities

Terms & Conditions

1. All authors who are presenting a paper at **ICT-MobileSummit 2009** must complete their payment registration and ensure payment is received by **06 April** at the latest, prior to publication of the Final Programme.

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14. The registration desk will open on Tuesday 09 June from 14:00 to 17:00 and will remain open during normal conference hours from 08:00 on Wednesday.

Santander

Santander, the capital of Cantabria, is a pretty and historical city, with good infrastructure and public transport. There is a good range of hotels and restaurants with different price points, nice sea front and easy access to other parts of Cantabria for tours.

Apart from visiting the historical parts of Santander, delegates should also visit nearby attractions in Cantabria including Santillana del Mar and Caves of Altamira, Cabárceno Park and Caves of El Soplao.

It is possible to fly directly to Santander with Ryanair and Iberia. The airport is 7 km from the city centre. Ryanair has direct flights to Santander from Dublin, Frankfurt, London, Milan, and Rome, while Iberia has direct flights to Santander from Amsterdam, Paris, Madrid, Barcelona and other national airports.

Bilbao airport is 89 km from Santander with very good connections to other European cities. It takes 1 - 1.5 hrs to drive from Bilbao depending on traffic and time of day. All major car hire agencies have an office at Bilbao airport.

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During the three days of the Conference, partners will be able to choose from a selection of tours. If your partner would like to attend the Welcome Reception and Conference Dinner, it will be possible to book additional tickets for these evening social events.

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ICT-MobileSummit 2009 Exhibition showcases applied ICT research results and applications through technology demonstrations and posters, whether funded commercially, or at a national, regional or European level.

Demonstration Stands

Stand Name	Organisation	Country
DG Information Society & Media	European Commission	Belgium
4WARD: Architecture and Design of the Future Internet	University of Bremen	Germany
Context Casting (C-CAST)	Portugal Telecom Inovação S.A	Portugal
Emerging Wireless Transmitter Characterization Platform	University of Cantabria	Spain
eMobility	Ericsson	Germany
End-to-End Efficiency (E3)	Alcatel-Lucent Deutschland	Germany
EUWB - Towards Advanced UWB Applications	GWT-TUD GmbH	Germany
ICT ALPHA - Architectures for fLexible Photonic Home and Access networks	Acreo AB	Sweden
ICT-eMuCo - Embedded Multi-core Processing for Mobile Communication	Ruhr-University Bochum	Germany
IMS ARCS	TSSG, WIT	Ireland
NEWCOM++: The Network of Excellence in Wireless Communications	CNIT	Italy
SENSEI - Real World Internet	University Politehnica of Bucharest	Romania
WALTER	inno group	France
WHERE project	DLR e.V.	Germany
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