



Conference & Exhibition

Future Network & MobileSummit 2010 Final Programme

Florence - Italy

16 - 18 June 2010

Supported by

European Commission
Information Society and Media



eMobility
(Connect to the network community)



Technical Co-Sponsor



Introduction

Future Network & MobileSummit 2010 Conference & Exhibition takes place 16 - 18 June 2010 in Florence, Italy. This is the nineteenth 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.

Future Network & MobileSummit 2010 will address all the challenges of building the Future Internet, which will be based on mobile, wireless and fixed broadband communications infrastructures.

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 **Future Network & MobileSummit's** reputation is based on high quality networking, plenary sessions that discuss strategic issues in core thematic areas and paper sessions that showcase original results in all areas of mobile, wireless and fixed broadband communications systems and networks.

The goals of the **Future Network & 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?

Future Network & MobileSummit 2010

Conference & Exhibition attracts practitioners and researchers from leading commercial and research organisations around the world. Unlike many research conferences, **Future Network & MobileSummit 2010** 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.

Future Network & MobileSummit 2010

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

Future Network & MobileSummit Conference & Exhibition takes place in the Sheraton Firenze, which is five kms from the city centre.

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 47 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 Networking Reception which will take place on Wednesday 16 June 2010 and a Conference Dinner on Thursday 17 June 2010.

The Conference Programme is subject to change and the **Future Network & MobileSummit 2010** 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 **Future Network & 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 facilitate 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 **Future Network & MobileSummit 2010** 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.

Full papers accepted in the Proceedings will also have the option to be published in IEEE Xplore.

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 **Future Network & MobileSummit 2010**, 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 Florence. 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 in the Sheraton Firenze (Conference venue), which is five kms from the city centre.

Conference hotel accommodation should be booked online on the **Future Network & MobileSummit 2010** 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.FutureNetworkSummit.eu/2010

Networking Reception - 16 June

The Organising Committee is pleased to announce that Networking Cocktail Reception will take place on Wednesday 16 June from 19:00 - 20:00 in the Exhibition area. Delegates should indicate participation in this event as part of online registration.

Conference Dinner - 17 June

The Organising Committee is pleased to announce that the Conference Dinner will be held on Thursday 17 June at 20:00.

The dinner venue has a fixed capacity and delegates are requested to confirm their participation no later than 30 April as part of online registration.

Pre-Conference Workshops

A number of pre-conference workshops will take place on Tuesday 15 June at the **Future Network & MobileSummit 2010** venue: Sheraton Firenze.

Two half day NEWCOM++ tutorials:

- Tutorial: Short-Range Ranging and Localization: Theory and Experimental Results
- Tutorial: Multiple Antenna Systems from Optimum Combining to MIMO Networks: a Random Matrix Theory Approach

Four full day workshops:

- Context-awareness in Smart Environments
- Fixed-mobile Convergence: A 2010 Update
- eMobility/RAS Cluster Meeting
- Future Internet Cluster Meeting

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.FutureNetworkSummit.eu/2010

Organisers

- Miriam Cunningham, IIMC Ltd, Ireland
- Paul Cunningham, IIMC Ltd, Ireland



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@FutureNetworkSummit.eu

Conference Portal & Delegate Showcase

www.FutureNetworkSummit.eu/2010

Plenary Session Speakers



Zoran Stančić
European Commission



Roberto Saracco
Telecom Italia



Joao da Silva
University Luxembourg



Alberto Lotti
Alcatel-Lucent



Ezio Zerbini
Ericsson

Plenary Speakers confirmed as at 22 May include:

- **Dr Zoran Stančić**, Deputy-Director General, DG Information Society and Media, European Commission
- **Dr Roberto Saracco**, Director, Telecom Italia, Italy
- **Mario Campolargo**, Director, DG Information Society and Media, European Commission
- **Olaf Droegehorn**, Research in Motion and the University of Kassel
- **Michael Fitch**, Chief Researcher for Wireless, BT
- **Jean Charles Hourcade**, Director of Research, Centre National de la Recherche Scientifique, France
- **Alberto Lotti**, Director, Alcatel-Lucent, Italy
- **Filip Louagie**, Director of the Wireless Department, IMEC
- **Professor Martti Mäntylä**, Aalto University, Finland
- **Jacques Magen**, CELTIC, Germany
- **Christian Mouton**, Program Manager for Communications Technologies, NEC
- **Luis Neves**, Vice President Corporate Responsibility, Deutsche Telekom AG
- **Professor Martti Mäntylä**, Aalto University, Finland
- **Clara Pelaez**, VP Marketing and Strategy of Market Unit South East Europe, Ericsson
- **Juergen Quittek**, NEC Europe Ltd; Chair of IEEE Green Communications workshop series
- **Stuart Revell**, Director of Digital Communications Knowledge Transfer Network
- **Joao da Silva**, Former Director of DG-INFOS and Research Fellow with SNT, University of Luxembourg
- **Sam Samuel**, Executive Director of Bell Labs Ireland and UK
- **Ezio Zerbini**, Head of Technology, Ericsson

Technical Programme Committee

- **Dr. Roberto Saracco**, Director, Telecom Italia Future Centre, Italy - General Chair
- **Prof. Marco Luise**, University of Pisa/NEWCOM++ Technical Programme Chair
- **Dr. Josy Sayir**, University of Cambridge - Radio Access and Spectrum Track Chair
- **Prof. Franco Callegati**, DEIS / BONE - Converged/Optical Track Chair
- **Prof. George C. Polyzos**, Athens University of Economics and Business/Euro-NF, Future Internet Track Chair
- **Prof. Merouane Debbah**, SUPELEC, France, NEWCOM++ Track Chair

The Future Network & MobileSummit 2010

Technical Programme Committee includes

- **Henrik Abramowicz**, Ericsson, Sweden
- **Carles Anton-Haro**, CTTC, Spain
- **Erdal Arıkan**, Bilkent University, Turkey
- **Prof. Nigel Baker**, UWE Bristol, United Kingdom
- **Prof. Albert Banchs**, Universidad Carlos III de Madrid, Spain
- **Maurice Bellanger**, CNAM, France
- **Dr. Friebert Berens**, FBConsulting Sarl, Luxembourg
- **Prof. Nicola Blefari Melazzi**, Università degli Studi di Roma - Tor Vergata, Italy
- **Dr. Sergio Bovelli**, EADS Innovation Works, Germany
- **Jose M^a Cabero Lopez**, ROBOTIKER-Tecnalia, Spain
- **Prof. Augusto Casaca**, Inesc-ID, Portugal
- **Dr. Piotr Cholda**, AGH University of Science and Technology, Poland
- **Prof. Luis Correia**, Instituto Superior Technico, Portugal
- **Prof. Klaus David**, Kassel University, Germany
- **Prof. Panagiotis Demestichas**, University of Piraeus, Greece
- **Prof. Bart Dhoedt**, Ghent University - IBBT, Belgium
- **Dr. Ralf Eickhoff**, Dresden University of Technology, Germany
- **Markus Fiedler**, BTH, Sweden
- **Bernard Fleury**, AAU, Denmark
- **Roberto Gaudino**, Politecnico di Torino, Italy
- **Christine Guillemot**, IRISA, France
- **Günter Haring**, Universität Wien, Austria
- **Uwe Herzog**, Eurescom, Germany
- **Jean-Philippe Javaudin**, France Telecom, France
- **Nigel Jefferies**, Vodafone, UK
- **Prof Borka Jerman-Blazič**, Josef Stefan Institute, Slovenia
- **Prof. Peter Jung**, Universität Duisburg-Essen, Germany
- **Dr. Stefan Kaiser**, DoCoMo Euro-Labs, Germany
- **Prof. Raimo Kantola**, Helsinki University of Technology, Finland
- **David Kennedy**, Eurescom, Germany
- **Wolfgang Koenig**, Alcatel Lucent, Germany
- **Georgios Kormentzas**, University of the Aegean, Greece
- **Dr. Ibrahim Korpeoglu**, Bilkent University, Turkey

- **Marios Kountouris**, Supelec, France
- **Raymond Knopp**, Eurecom, France
- **Matti Latva-aho**, University of Oulu, Finland
- **Dr. Roberto Llorente**, UPV, Spain
- **Dr. Gian Mario Maggio**, COST Office, Belgium
- **Dr. Antonio Manzalini**, Telecom Italia, Italy
- **Giannis Marias**, AUEB Greece
- **Prof. Franco Mazzenga**, Università degli Studi di Roma "Tor Vergata"
- **John Mitchell**, UCL, United Kingdom
- **Roberto Minerva**, Telecom Italia, Italy
- **Dr. Klaus Moessner**, CSSR, University of Surrey, UK
- **Dr. Werner Mohr**, Nokia Siemens Networks, Germany
- **Corrado Moiso**, Telecom Italia, Italy
- **Dr. Paulo Monteiro**, NSN/University of Aveiro, Portugal
- **Prof. Paul Müller**, University of Kaiserslautern, Germany
- **Prof. Luis Muñoz**, University of Cantabria, Spain
- **Dr Maurizio Naldi**, Università di Roma "Tor Vergata", Italy
- **Jad Nasreddine**, RWTH Aachen University, Germany
- **Dominique Noguét**, CEA-LETI, France
- **Micheál O'Foghlú**, TSSG, WIT, Ireland
- **Sergio Palazzo**, University of Catania, Italy
- **Dimitri Papadimitriou**, Alcatel-Lucent Bell, Belgium
- **George Paschos**, CERTH, Greece
- **Jordi Perez-Romero**, UPC, Spain
- **Mario Pickavet**, University of Gent, Belgium
- **Jean-Charles Point**, JCP-Consult, France
- **Andreas Polydoros**, NKUA, Greece
- **Dr Mikhail Popov**, Acreo AB, Sweden
- **Ronald Raulefs**, DLR, Germany
- **Maria Angeles Callejo Rodriguez**, TID, Spain
- **Dr. Oriol Sallent**, UPC, Spain
- **Reijo Savola**, VTT, Finland
- **Hans Schotten**, University of Kaiserslautern, Germany
- **Prof. Vasilios Siris**, FORTH-ICS, Greece
- **Dr. Petia Todorova**, Fraunhofer FOKUS, Germany
- **Prof. Ralf Tönjes**, University of Applied Sciences Osnabrück, Germany
- **Danail Traskov**, TU Munich, Germany
- **Dr. Dirk Trossen**, BT Research, United Kingdom
- **Prof. Kurt Tutschku**, University of Vienna, Austria
- **Luc Vanderdorpe**, UCL, Belgium
- **Dr. Liesbet Van der Perre**, IMEC, Belgium
- **Roberto Verdone**, University of Bologna, Italy
- **Dr. Josep Vidal**, UPC, Spain
- **Martin Vigoureux**, Alcatel-Lucent, France
- **Guillaume Vivier**, Sequans Communications, France
- **Prof. Konstantinos Voudouris**, TEI of Athens, Greece
- **Dr Fiona Williams**, Ericsson, Germany
- **Lena Wosinska**, KTH, Sweden
- **Dr. George Xylomenos**, AUEB, Greece
- **Dr. Stefano Zanero**, Politecnico di Milano, Italy
- **Prof. Sven Zeisberg**, University of Applied Sciences Dresden, Germany



Wednesday, June 16, 2010

08:00 Registration : Registration

09:00 Opening Plenary 1a

Keynote Address

Mr Zoran Stančič, Deputy Director General, DG Information Society and Media

Dr Roberto Saracco, Telecom Italia, Italy

09:45 Plenary Session 2a: [Future Internet - What is the Internet going to look like in 2020?](#)

Chair: [Roberto Saracco, Telecom Italia, Italy](#)

Panel Participants

Mario Campolargo, Director, DG Information Society and Media, European Commission

Jean Charles Hourcade, Director of Research, Centre National de la Recherche Scientifique (CNRS), France

Alberto Lotti, Director, Alcatel-Lucent, Italy

Professor Martti Mäntylä, Helsinki Institute for Information Technology, Finland

Dr Roberto Saracco, Director, Telecom Italia, Italy

Joao da Silva, Former Director of DG-INFOS and Research Fellow with SNT, University of Luxembourg

Ezio Zerbini, Head of Technology, Ericsson

11:45 Coffee Break : Coffee Break

12:15 Session 3a: [Radio Resource Management](#)

Chair: [Josep Vidal, Universitat Politècnica de Catalunya, Spain](#)

Pricing-Based Resource Allocation in Ad-Hoc Networks Using Auction Theory

Hamed Al-Raweshidy, Brunel University, United Kingdom

Collaborative Radio Resource Management for Femto-Cell Networks

Timothy Farnham, Toshiba Research Europe Ltd, United Kingdom

Collaborative Cognitive RRM, Dynamic Spectrum Management, and Self-Organisation for Future Mobile Networks

Eckard Bogenfeld, Deutsche Telekom AG, Germany

Performance Assessment of a Spectrum and Radio Resource Management Architecture for Heterogeneous Wireless Networks

Kostas Tsagkaris, University of Piraeus Research Center (UPRC), Greece

Constrained Resource Allocation for OFDMA Wireless Mesh Networks with Limited Feedback

Felix Brah, Louvain School of Engineering, Université catholique de Louvain, Belgium

12:15 Session 3b: [Communications with Imperfect Channel Knowledge](#)

Chair: [Werner Mohr, Nokia Siemens Networks GmbH & Co. KG, Germany](#)

Code-Aided Iterative Channel Estimation for OFDM Signals with Non-Binary LDPC Codes

Giacomo Bacci, Wiser srl, Italy

On the Performance of a Turbo-coded LTE OFDM System with Imperfect Channel Estimates

Cecilia Carbonelli, Infineon Technologies, Germany

Challenges and Solutions for High Speed Channel Estimation of IMT-ADV Systems

Serdar Sezginer, Sequans Communications, France

Semiblind Joint Channel Estimation and Equalization for OFDM Systems in Rapidly Varying Channels

Habib Senol, Kadir Has University, Turkey

Fog attenuation on V band terrestrial radio and a low-cost measurement setup

László Csurgai-Horváth, Budapest University of Technology and Economics, Hungary

12:15 Session 3c: [Home Networking and Fixed/Mobile Convergence](#)

Chair: [Roberto Llorente, Universidad Politécnica de Valencia, Spain](#)

Bidirectional Gigabit Transmission over a Single SI-POF for Home Networking

Alessandro Antonino, Politecnico di Torino, Italy

Architectures for low-cost Gbit/s POF links for Home Networking

Stefano Straullu, Istituto Superiore Mario Boella, Italy

Sensing and Fingerprinting of Ultra Wide Band Radio in UCELLS project

Maria Morant, Nanophotonics Technology Center, Universidad Politécnica de Valencia, Spain

Wavelength reused bidirectional transmission of adaptively modulated optical OFDM signals in SOA/RSOA intensity modulator-based WDM-PONs

Emilio Hugues-Salas, Bangor University, United Kingdom

Application QoS Management and Session Control in a Heterogeneous Home Network using Inter-MAC Layer Support

Marco Castrucci, University of Rome "Sapienza", Italy

12:15 Session 3d:

[Information Networking](#)

Chair: [Corrado Moiso, Telecom Italia, Italy](#)

Mobility-Aware Distributed Embedding (MADE) of virtual networks

Gorka Hernando, Tecnalia-Telecom, Spain

Scalable Object-to-Object Communication over a Dynamic Global Network

Anders Eriksson, Ericsson, Sweden

Scalable Metadata-Directed Search in a Network of Information

Karl Palmkog, KTH Royal Institute of Technology, Sweden

On the incremental deployment of overlay information centric networks

Konstantinos Katsaros, Athens University of Economics and Business, Greece

Information Ranking in Content-Centric Networks

Giannis Marias, Athens University of Economics and Business, Greece

12:15 Session 3e:

[NEWCOM++ - Modeling and Estimation](#)

Chair: [Carles Anton-Haro, CTTC, Spain](#)

Static Positioning Using UWB Range Measurements

Mohammad Reza Gholami, Chalmers, Sweden

Testing for normality of UWB-based distance measurements by the Anderson-Darling statistic

Javier Arribas, CTTC, Spain

Relative Channel Reciprocity Calibration in MIMO/TDD Systems

Florian Kaltenberger, Eurecom, France

Performance Analysis of Iterative Decision-Directed Phase Noise Estimation

Jabran Bhatti, Ghent University, Belgium

Delay-tolerant vs. delay-constrained estimation of spatial random fields

Carles Anton-Haro, CTTC, Spain

12:15 Poster Session 3f: [Future Internet - Wireless & Mobility Issues](#)

Chair: [George Xylomenos, Athens University of Economics and Business, Greece](#)

Achieving Efficient Resource Allocation on Non-RF Isolated Wireless Testbed Deployments

Apostolos Apostolaras, CERTH, Greece

Boosting Mobility Performance with Multi-Path TCP

Marcelo Bagnulo, University Carlos III of Madrid, Spain

A Flexible Architecture for Heterogeneous Wireless Mesh Networks

Stefan Wendt, France Telecom - Orange Labs, France

An Intelligent Traffic Distribution Policy in Wireless Mesh Networks

Ehsan Hamadani, University of Surrey, United Kingdom

Static Context Inference of Header Compression for Wireless Video Broadcast

Xavier Le Bourdon, JCP Consult, France

14:00 Lunch

15:00 Session 4a: [Relaying and Cooperation](#)

Chair: [Ronald Raulefs, DLR e.V., Germany](#)

Network-Coded Cooperation Protocol for Multiple Source – Multiple Relay Topologies in Cellular Networks

Vasile Bota, Technical University of Cluj Napoca, Romania

Performance Evaluation of a Distributed SFBC Relay-Assisted Scheme for OFDM Systems

Atílio Gameiro, Instituto de Telecomunicacoes, Portugal

Weighted Sum-Rate based Power Allocation for the Uplink of Nonregenerative Cooperative Multi-User MIMO Communication System

Reza Hoshyar, University of Surrey, United Kingdom

Low-Complexity Power Allocation Schemes for the Downlink of Nonregenerative Cooperative Multi-User MIMO Communication System

Fabien Heliot, University of Surrey, United Kingdom

Binary Dirty Paper Coding

Daniel Castanheira, Instituto de Telecomunicações, Portugal

15:00 Session 4b: [Energy Awareness](#)

Chair: [Stefan Kaiser, DOCOMO Euro-Labs, Germany](#)

Energy-Aware Routing in Wireless Ad Hoc Networks with Mains-Powered Nodes

Javad Vazifehdan, Delft University of Technology, Netherlands

A Cross-Layer Approach to Save Energy in 3GPP-LTE Terminals

Filip Louagie, IMEC, Belgium

A Low Power, Low Data Rate Impulse Radio Ultra Wide Band Transceiver

Manuel Pezzin, CEA/LETI, MINATEC, France

Power Consumption Modeling of Different Base Station Types in Heterogeneous Cellular Networks

Oliver Arnold, Technische Universitaet Dresden, Germany

15:00 Session 4c: [Access and PONs](#)

Chair: [Jean-Charles Point, JCP-Consult, France](#)

Subsystems for Future Access Networks

Jose A Lazaro, Universitat Politècnica de Catalunya, Spain

Adaptive Modulation Induced WDM Impairment Reduction in Optical OFDM PONs

Emilio Hugues-Salas, Bangor University, United Kingdom

Scheduling and Wavelength Assignment Issues in Metro-Scale Hybrid WDM/TDMA EPONs

Konstantinos Kanonakis, Athens Information Technology (AIT), Greece

Update from EU Project SARDANA on Metro-access WDM-PON

Jose A Lazaro, UPC, Spain

Future Passive Optical Networks: Can CDM beat WDM?

Gabriella Cincotti, University Roma Tre, Italy

15:00 Session 4d: [Security, Trust and Privacy in the Future Internet](#)

Chair: [Reijo Savola, VTT Technical Research Centre of Finland](#)

Security and Privacy Enablers for Future Identity Management Systems

Marc Barisch, University of Stuttgart, Germany

A 3GPP open-ID Framework

Rui Aguiar, Instituto de Telecomunicacoes, Portugal

Feasibility of Wire-Speed Hardware-based Conditional Per-flow Encryption for On-the-Fly Protection of Monitored Traffic

Oliver Jung, Telecommunications Research Center Vienna (FTW), Austria

Scalable and Fast Approximate Excess Rate detection

Simone Teofili, University of Roma Tor Vergata, Italy

Justifying Information Security Investments in Web Software (Quantitative techno-business modeling approach)

Josip Zoric, Telenor R&I, Norway

15:00 Session 4e: [NEWCOM++ - Opportunistic Communications](#)

Chair: [Sergio Palazzo, CNIT, Italy](#)

Experimental and Analytical Performance Evaluation of a Real Opportunistic Wireless Sensor Network

Mirko Franceschinis, Istituto Superiore Mario Boella (ISMB), Italy

On the comparison between performance of DHT-based protocols for opportunistic networks

Marcel Cavalcanti de Castro, Karlstad University, Sweden

Spectrum Decision in GSM band using a Fuzzy Logic Controller

Andrea Carniani, CNIT - University of Bologna, Italy

Group Behavior Impact on an Opportunistic Localization Scheme

Tanguy Perennou, LAAS-CNRS ; ISAE ; Univ. Toulouse, France

High-Throughput Random Access via Codes on Graphs

Marco Chiani, University of Bologna, Italy

15:00 Poster Session 4f: [Future Internet Business, Architecture, and Protocol Design](#)

Chair: [Luis Muñoz, University of Cantabria, Spain](#)

Evaluation of Business Use Cases in the Future Internet

Daniel Sebastiao, IT/IST-TUL, Portugal

Dynamic Routing and Wavelength Assignment in Transparent WDM Networks with Amplifiers' Power Constraints

Emmanuel Varvarigos, Research Academic Computer Technology Institute, Greece

A Proposal for Future Internet Architecture

Marco Castrucci, University of Rome "Sapienza", Italy

Socket Emulation over a Publish/Subscribe Network Architecture

George Xylomenos, Athens University of Economics and Business, Greece

A Design of Networked Device Capability Description Method

Paul Barom Jeon, Samsung Electronics, Republic Of Korea

16:45 Coffee Break : Coffee Break

17:15 Session 5a:

[RAS Showcase I](#)

Chair: [Didier Bourse, Alcatel-Lucent, France](#)

Resource Sharing in Wireless Networks: The SAPHYRE Approach

Eduard Jorswieck, TU Dresden, Germany

Spectrum and Infrastructure Sharing in Wireless Networks: A Case Study with Relay-Assisted Communications

Florian Roemer, Ilmenau University of Technology, Germany

The COGEU FP7 project: Cognitive Radio Systems for Efficient Sharing of TV White Spaces in European Context

Paulo Marques, Instituto de Telecomunicacoes, Portugal

Towards Quality of Service and Mobility in Cognitive Radio Systems

Dominique Noguét, CEA/LETI, MINATEC, France

17:15 Session 5b:

[RAS Showcase II](#)

Chair: [Carles Anton-Haro, CTTC, Spain](#)

ROBUST: Reliable Overlay Based Utilisation of Services and Topology for Emergency MANETs

Grant Millar, Kingston University, United Kingdom

Femtocells for next-G Wireless Systems: the FREEDOM approach

Guillaume Vivier, Sequans Communications, France

Vision and Architecture Supporting Wireless GBit/sec/km2

Capacity Density Deployments

Mariana Goldhamer, Alvarion, Israel

On Optimizing Hybrid Ad-hoc and Satellite Networks – the MONET Approach

Zhili Sun, University of Surrey, United Kingdom

17:15 Session 5d:

[Future Internet ShowCase](#)

Chair: [Antonio Manzalini, Telecom Italia, Italy](#)

GEYSERS Architecture (Generalised architEcture for dYnamic infraStructure sERviceS)

Sergi Figuerola, i2CAT Foundation, Spain

Metro Architectures enabling Subwavelengths: Rationale and Technical challenges

Juan Fernandez-Palacios, Telefonica I+D, Spain

ETICS : QoS-enabled interconnection for Future Internet services

Nicolas Le Sauze, Alcatel-Lucent Bell Labs France, France

STRONGEST: Challenges for Network Architectures

Andrea Di Giglio, Telecom Italia, Italy

A Service Oriented Middleware Architecture for Wireless Sensor Networks

Payam Barnaghi, University of Surrey, United Kingdom

17:15 Session 5e:

[NEWCOM++ - Coding](#)

Chair: [Michel Kieffer, L2S - CNRS - Supelec - Univ Paris-Sud, France](#)

BER Performance of OSTBCs on Correlated Fading Channels With Imperfect Channel Estimation

Lennert Jacobs, Ghent University, Belgium

A Greedy Algorithm for Goodput-Oriented AMC in Turbo-Coded OFDM

Filippo Giannetti, CNIT/University of Pisa, Italy

Adaptive coded CPM

Alberto Perotti, Politecnico di Torino, Italy

Space Time Coded OFDM System with Transmit and Receive Antenna Selection

Tansal Gucluoglu, Kadir Has University, Turkey

Joint Protocol-Channel decoding

Michel Kieffer, L2S - CNRS - Supelec - Univ Paris-Sud, France

17:15 Poster Session 5f: **Future Internet - Smart Spaces, Identity, Privacy, and Security**Chair: **Klaus Moessner, University of Surrey, United Kingdom****Towards Pervasive Smart Spaces: A Tale of Two Projects**

Nigel Baker, UWE Bristol, United Kingdom

BinaryWS: Enabling the Embedded Web

Nicola Bui, Consorzio Ferrara Ricerche, Italy

Identity Driven Mobility Architecture

Alfredo Matos, Instituto Telecomunicações, Portugal


Secure Mediation Gateway Architecture Enabling the Communication Among Critical Infrastructures

Donato Macone, Sapienza - Università di Roma, Italy

Cross Layer Privacy Support For Identity Management

Alfredo Matos, Instituto de Telecomunicações Pólo de Aveiro, Portugal

19:00 Networking Reception - Exhibition



Thursday, June 17, 2010

09:00 Plenary Session 6a: **The Green Internet**Chair: **Andrew Houghton, European Commission, Belgium****Research Trends in Green Communications**

Jurgen Quittek, NEC Europe Ltd, Germany

Presentation title to be confirmed

Sam Samuel, Executive Director of Bell Labs Ireland and UK

We Take Responsibility: How Corporate Responsibility Supports Business @ Deutsche Telekom

Luis Neves, Vice President Corporate Responsibility, Deutsche Telekom AG

Celtic-Plus: a Smart Connected World. Going 'Greener' with Communication Solutions

Jacques Magen, CELTIC, Germany

Communications Enables a Green World

Clara Pelaez, Ericsson

11:00 Coffee Break : Coffee Break

11:30 Session 7a: **Special Session on Advanced MIMO Techniques**Chair: **Ralf Eickhoff, Technische Universität Dresden, Germany****Full-Rate MIMO Techniques for Next Generation Wireless Networks**

Onur Oguz, Université catholique de Louvain, Belgium

OFDM and FBMC Performance Comparison for Multistream MIMO Systems

Iñaki Estella, CTTC, Spain

RF Impairments of Vector Modulators in Wireless MIMO Receivers

Ralf Eickhoff, Dresden University of Technology, Germany

Preamble Design for MIMO OFDMA based Cellular Systems

Young-Ho Jung, Korea Aerospace University, Republic of Korea

Evaluation of Low Rate Channel Feedback Schemes for MIMO Systems

Mats Bengtsson, Royal Institute of Technology (KTH), Sweden

11:30 Session 7b:

Wireless Sensor NetworksChair: **Augusto Casaca, INESC-ID, Portugal****Hot-spot Issue Aware Clustering for WSNs to Extend Stable Operation Period**

Alexander Gluhak, CCSR, University of Surrey, United Kingdom

A Robust Management Platform for Multi-Sensor Location Data Interpretation

Christian Mannweiler, University of Kaiserslautern, Germany

Advanced Packet Scheduling in Soft Frequency Reuse Scenarios for Multiantenna Packet Radio Systems

Stanislav Nonchev, Tampere University of Technology - Finland, Finland

11:30 Session 7c: **Optical Networks for Future Internet Architecture and for a Green Future Internet I**Chair: **Dimitra Simeonidou, University of Essex, United Kingdom****Network Virtualization**

Krishan Sabnani, Vice President of Networking Research, Alcatel-Lucent Bell Labs

Power Efficient Transport Architectures based on Multigranular Photonic Switching Technologies and Service to Network Interworking

Juan Pedro Fernandez-Palacios Gimenez, MAINS Project

Green Features of STRONGEST

Andrea Di Giglio, STRONGEST Project

Impact of GEYSERS architecture on Green IT

Sergi Figuerola, GEYSERS project

11:30 Session 7d:

Platforms, Services, & ApplicationsChair: **Fiona Williams, Ericsson GmbH, Germany****Towards A Service Ecology for Pervasive Networked Environments**

Corrado Moiso, Telecom Italia, Italy

A Model Checking Strategy to Test Services in Orchestrations

Francesco De Angelis, University of Camerino, Italy

Prioritized 3-D Video Distribution over IEEE 802.11e

Maria Martini, University of Kingston, United Kingdom

System Architecture for Multimedia Streaming Optimisation

Roberta Fracchia, Thales Communications, France

A Framework for Model-Driven Proposal and Evaluation of TABAC Strategies

Jochen Kögel, University of Stuttgart, Germany

11:30 Session 7e:

NEWCOM++ - Resource AllocationChair: **Hanna Bogucka, Poznan University of Technology, Poland****Computationally-efficient bit-and-power allocation for multicarrier transmission**

Adrian Kliks, Poznan University of Technology, Poland

Distributed Radio Resource Allocation Schemes in OFDMA Cellular Networks

Giulio Dainelli, University of Pisa, Italy

Bayesian Equilibria in Slow Fading OFDM Systems with Partial Channel State Information

Laura Cottatellucci, EURECOM, France

A Game Theoretical Approach to the Management of Node

Clusters in DR-OSTC Based MISO Cooperative Communications

Giorgio M. Vitetta, CNIT, University of Modena and Reggio Emilia, Italy

Opportunistic Channel Allocation Algorithms for WLANs Based on IEEE802.11

Francisco Novillo, Universitat Politècnica de Catalunya (UPC), Spain

11:30 Poster Session 7f:

CaON Poster SessionChair: **Ioannis Petropoulos, Technological Educational Institution (TEI) of Athens, Greece****ARON: A SOA Array-based WDM-TDM Reconfigurable Optical Access Network**

Nguyen-Cac Tran, Eindhoven University of Technology, Netherlands

A Business Model Analysis for WiMAX Relay Station Networks

Ioannis Petropoulos and K. Voudouris, TEI of Athens, Greece

Configuration Management System for Addressing Distributed Antennas over an Optical Infrastructure

Carlos Santiago, Nokia Siemens Networks, Portugal

Active Routing in Green Home Networks

Antonio Pietrabissa, Univ. Rome Sapienza, Italy

Monitoring Devices for OSNR-assisted Routing in Optical Packet-Switched Networks

Ruth Vilar, Universidad Politécnica de Valencia, Spain

On the Multicast Aspects of Dynamic WDM Converged Wired/Wireless Access Networks

Gustavo Puerto, Universidad Politécnica de Valencia, Spain

Design and Performance of Radio over Fibre Links for Next Generation Wireless Systems using Distributed Antennas

David Wake, University of Kent, United Kingdom

13:15 Lunch

14:30 Session 8a: **Implementation, Testbeds, and Experimental Performance Evaluation**

Chair: **Klaus David, University of Kassel, Germany**

Experimental Demonstration of Colourless Real-Time End-to-End Optical OFDM Transmission at 7.5Gb/s over 25km SSMF Using a 1GHz RSOA

Roger Giddings, Bangor University, United Kingdom

Experimental evaluation of an RF-MIMO transceiver for 802.11a WLAN

Óscar González, University of Cantabria, Spain

Implementation and Performance of an Opportunistic Cognitive Radio System

Antonio Cipriano, Thales Communications, France

DAVINCI Non-Binary LDPC codes: Performance and Complexity Assessment

Ismael Gutierrez, Samsung Electronics Research Institute, United Kingdom

14:30 Session 8b: **Next Generation Cellular and Wireless Networks**

Chair: **Jordi Perez-Romero, Universitat Politecnica de Catalunya, Spain**

Performance Analysis of Next Generation Wireless Networks

Aritz Estevez, Tafco Metawireless, Spain

Scalable Video Broadcasting Trials in 4G Cellular Deployments

Thomas Wirth, Fraunhofer Heinrich Hertz Institute, Germany

Performance of Multicell Joint Processing Planar Cellular Uplink in the Presence of Relay Nodes

Muhammad Ali Imran, University of Surrey, United Kingdom

Regulation Requirements of Advanced Spectrum Exploitation Technologies

Klaus Moessner, University of Surrey, United Kingdom

14:30 Session 8c: **Optical Networks for Future Internet Architecture and for a Green Future Internet II**

Chair: **Mario Pickavet, Ghent University - IBBT, Belgium**

Energy Efficiency in Telecommunication Networks - Challenges and Opportunities

Christoph Lange, Deutsche Telekom, Germany

Energy Efficient Design of Wavelength Routed Networks

Fabio Neri, Politecnico di Torino, Italy

Evaluation of Energy Efficiency in Electronic and Optical Network Elements

Slavisa Aleksic, Vienna University of Technology, Austria

Cloud Computing, Risks and Opportunities

Thomas Michael Bohnert, SAP Research, Switzerland

14:30 Session 8d: **Network Usage Scenarios and Resilience**

Chair: **Henrik Abramowicz, Ericsson, Sweden**

Fault Resilience in Next-Generation Networks

Gianmarco Panza, CEFRIEL, Italy

TRAMMS: Monitoring the evolution of residential broadband Internet traffic

Andreas Aurelius, Acreo AB, Sweden

NGN Usage in Future Internet Scenarios

Spiros Spirou, Intracom, Greece

On Realising a Strategy for Resilience in Opportunistic Networks

Christian Rohner, Uppsala University, Sweden

Functional Enhancements of Cooperative Session Control for "Minimum Core" Architecture

Takayuki Warabino, KDDI R&D Laboratories, Japan

14:30 Session 8e: **NEWCOM++ - Relay Networks**

Chair: **Luc Vandendorpe, UCL, Belgium**

Effects of Power Allocation and Reuse Distance in Relay-Assisted Wireless Communications with Mutual Interference

Velio Tralli, CNIT - University of Ferrara, Italy

Throughput Analysis of Slotted Aloha Multiple Hop Systems with Virtual Antenna Arrays

Roberto Verdone, CNIT - University of Bologna, Italy

A Novel Quantize-and-Forward Cooperative System: Channel Parameter Estimation Techniques

Iancu Avram, Ghent University, Belgium

On the Rate-Equivocation Region of Parallel Relay Eavesdropper Channels

Zohaib Awan, Universite Catholique de Louvain, Belgium

Routing with (p-percent) Partial Flooding for Opportunistic Networks

Tamer Dag, Kadir Has University, Turkey

14:30 Poster Session 8f:

RAS Poster Session 1

Chair: **Bartolome Arroyo Fernandez, European Commission, Belgium**

Centralized Channel and Power Allocation for Cognitive Radio Networks: A Q-learning Solution

YanJun Yao, Beijing University of Posts and Telecommunications, China

Radio Resource Management in Multiple Virtual Networks

Luisa Caeiro, IST-TUL, Portugal

Performance Assessment of Cooperative Positioning Techniques

Christian Mensing, German Aerospace Center (DLR), Germany

A Proof of Concept Environment for Cognitive and Self-x Functionalities

Panagis Magdalinos, University of Athens, Greece

Antenna Solutions for UWB Communication Devices in 60GHz Range

Kai Dombrowski, TES Electronic Solutions, Germany

Low Complexity Cooperative Diversity Algorithms for Satellite/Terrestrial Systems

Simone Morosi, University of Florence CNIT, Italy

Implementation of MU-MIMO precoding in OFDMA systems

Stylianos Perissakis, INTRACOM Telecom S.A., Greece

16:15 Coffee Break : Coffee Break

16:45 Session 9a:

WiMax and Beyond

Chair: **Christian Mensing, German Aerospace Center (DLR), Germany**

Spectrum Load Smoothing in IEEE 802.16 Systems

Karsten Klagges, Aachen University, Germany

QoE assessment of VoIP over IEEE 802.16 network with DaVinci codes using E-model

Adam Flizikowski, ITTI, Poland

System Level Evaluation of DAVINCI Non-Binary LDPC codes

Alain Mourad, Samsung Electronics (UK) Ltd, United Kingdom

Performance of a FilterBank MultiCarrier (FBMC) Physical Layer in the WiMAX Context.

Vidar Ringset, SINTEF, Norway

16:45 Session 9b:

Radio over Fibre

Chair: **Mikhail Popov, Acreo AB, Sweden**

Experimental Demonstration of Record high 11.25Gb/s Real-time End-to-end Optical OFDM Transceivers for PONs

Roger Giddings, Bangor University, United Kingdom

Predistortion study of Radio over Fibre link

Atso Hekkala, VTT Technical Research Centre of Finland, Finland

Analytical approach for performance evaluation of QPSK system with optical coherent receiver and digital signal processing

Evgeny Vanin, Acreo AB, Sweden

Simple Adaptively Modulated Optical OFDM Modems Using Subcarrier Modulation with Input/Output Reconfigurability

Roger Giddings, Bangor University, United Kingdom

16:45 Panel Session 9c: **BONe Panel on Green Optical Network Services**

Chair: **Franco Callegati, University of Bologna, Italy**

Panel Discussion

16:45 Session 9d:

Context, Sensors, Services

Chair: **Ralf Tönjes, Uni. Appl. Sci. Osnabrück, Germany**

A Semantic Context-Aware Network Architecture

Xavier Sanchez Loro, UPC, Spain

Distributed Context Management: Architecture & Commercial Trials

Nigel Baker, University of The West of England, United Kingdom

Context-Aware Multiparty Services Delivery: Evaluation and Experimentation

Susana Sargento, Instituto de Telecomunicações - Universidade de Aveiro, Portugal

Emerging Context Market and Context-Aware Services

Katarina Stanoevska-Slabeva, University of St. Gallen, Switzerland

Improving the Performance of Web Services in Wireless Sensor Networks

Hamidreza Abangar, University of Surrey, United Kingdom

16:45 Session 9e: **NEWCOM++ - Design of Future Networks**

Chair: **Merouane Debbah, SUPELEC, France**

Eigen-inference Moment Methods for Cognitive Wireless Communications

Merouane Debbah, SUPELEC, France

Radio Access to Heterogeneous Wireless Networks through JRRM Strategies

Antonio Serrador, Instituto Telecomunicacoes, Portugal

BeFEMTO's Self-Organized and Docitive Femtocells

Lorenza Giupponi, CTTC, Spain

Non-atomic coverage games in small cells networks

Merouane Debbah, SUPELEC, France

16:45 Poster Session 9f: **RAS Poster Session 2**

Chair: **tbc**

Spectrum Technologies for IMT-A

Jaakko Vihriälä, Nokia Siemens Networks, Finland

Combined LDR-LT/HDR platform requirements, feasibility analysis and specification – An EUWB Perspective

Alexander Viessmann, Universität Duisburg-Essen, Germany

Scheduling Optimization for Real-Time Services in WCDMA

Demosthenes Vouyioukas, University of the Aegean, Greece

A Packet Scheduling Algorithm with User Priority for Distributed Broadband Wireless Systems (DBWS)

Ramiro Samano, Institute of Telecommunications, Portugal

Enhanced Media Independent Handover Procedure for Next Generation Networks

Lambros Sarakis, National Center for Scientific Research "Demokritos", Greece

CRRM for RAT selection in the UMTS and WiMAX optimisation

Carlos Silva, Instituto de Telecomunicações, Portugal

Improving QoE in wireless networks through cognitive network optimization

Elena Meshkova, RWTH Aachen University, Germany

18:30 End of Parallel Sessions

20:00 Conference Dinner



DAY

**Friday,
June 18, 2010**

09:00 Plenary Session 10a:

RAS Next Generation Terminals

Chair: **Stuart Revell, Director of Digital Communications Knowledge Transfer Network**

Michael Fitch, Chief Researcher for Wireless, BT

Olaf Droegehorn, Research in Motion and the University of Kassel

Christian Mouton, Program Manager for Communications Technologies, NEC

Filip Louagie, Director of the Wireless Department, IMEC

Panel Discussion

09:00 Session 10e:

NEWCOM++ Dissemination Day

Welcome Addresses

Sergio Benedetto, NEWCOM++ Scientific Director, Politecnico di Torino, Italy

Hikmet Sari, Program Chair of the Dissemination Day, SUPELEC, France

WPR.1 – Modeling, Calibration and Validation of Multi-dispersive Multi-Link Channels

Bernard Fleury, Aalborg University, Denmark

WPR.2 – Feedback and Resolution of the Channel State

Raymond Knopp, Eurecom Institute, France

WPR.3 – Adaptive Coding/Modulation for the Wireless Channel

Hanna Bogucka, PUT, Poland

WPR.4 – Iterative Receivers for Wireless Communications

Pierre Duhamel, CNRS, France

WPR.5 – Coding for Multi-Hop Wireless Networks

Michael Heindlmaier, Technical University of Munich, Germany

WPR.6 – Relaying and Cooperation in Networks

Luc Vandendorpe, Université Catholique de Louvain, Belgium

WPR.7 – Joint Source and Channel Coding/Decoding

Christine Guillemot, CNRS, France

11:00 Coffee Break

11:30 Session 11a:

WINNER+

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

CSI Acquisition Concepts for Advanced Antenna Schemes in the WINNER+ Project

Petri Komulainen, University of Oulu, Finland

Wideband Radio Channel Measurements around 800 MHz in Outdoor to Indoor and Urban Macro Scenarios

Essi Suikkanen, University of Oulu, Finland

Advanced Radio Resource Management for IMT-Advanced in WINNER+

Jose F. Monserrat, Universidad Politecnica de Valencia, Spain

Scheduling-Assisted Joint Processing for CoMP in the Framework of the WINNER+ Project

Lars Thiele, Fraunhofer Heinrich Hertz Institute, Germany

MIMO Evaluation Platform for Fast Hardware Baseband

Sylvie MAYRARGUE, CEA-LETI, France

11:30 Session 11b:

Advanced Signal Processing and Coding

Chair: **Borka Jerman-Blazic, Josef Stefan Institute, Slovenia**

Adaptive Multilevel Waterfilling for Non-Binary LDPC Coded OFDM

Gabriele Boccolini, ENSEA - CNRS, France

Spectrum Monitoring Scheme for Filter Bank Based Cognitive Radios

Markku Renfors, Tampere University of Technology, Finland

Comparison of Pulse and FMCW based Radiolocation for Indoor

Tracking Systems

Axel Strobel, Dresden University of Technology, Germany

Analysis of RSSI Based Positioning with Multiband OFDM UWB

Andreas Waadt, Universitaet Duisburg-Essen, Germany

Link Adaptation with Retransmissions for Non-Binary LDPC Codes

Stephan Pfletschinger, CTTC, Spain

11:30 Session 11c: **Future Internet Self-Management Frameworks I**

Chair: **Wolfgang Koenig, Alcatel-Lucent Deutschland, Germany**

Configuration of Network Resources for Future Internet Application Services

Franco Callegati, University of Bologna, Italy

Business Analysis of Self-Organisation in Future Mobile Networks

Vânia Gonçalves, IBBT-SMIT, Vrije Universiteit Brussel, Belgium

Self-optimized Cognitive Network of Networks

Antonio Manzalini, Telecom Italia, Italy

Dynamic Protocol Functionality in Cognitive Future Internet Elements

David Wagner, Fraunhofer FOKUS, Germany

Introduction of Cognitive Systems in the Wireless World - Research Achievements and Future Challenges for End-to-end Efficiency

Wolfgang Koenig, Alcatel-Lucent Deutschland, Germany

11:30 Session 11d: **Future Internet Architecture and Protocol Design**

Chair: **Henrik Abramowicz, Ericsson, Sweden**

On a Future Internet Architecture Augmented by Satellite Networks

Konstantinos Liolis, Space Hellas SA, Greece

An Adaptive Approach to Optimize Thin Client Protocols

Benoit Lécroart, NEC Technologies, France

Multipath Routing by Network Decomposition and Traffic Balancing

Francesco Delli Priscoli, University of Rome, "Sapienza", Italy

Novel Cross-Layer Design for VoIP Services in Wireless Networks

Panagiotis Galiotos, University of Patras, Greece

Achieving Scalability in the UPMT Mobility Management Solution

Stefano Salsano, Univ. of Rome "Tor Vergata", Italy

11:30 Session 11e: **NEWCOM++ Dissemination Day**

WPR.8 – Scheduling and Adaptive Radio Resource Assignment

Roberto Verdone, University of Bologna, Italy

WPR.9 – Joint RRM and Flexible Use of Radio Spectrum

Jordi Perez Romero, Universitat Politècnica de Catalunya, Spain

WPR.10 – Network Theory

Iordanis Koutsopoulos, Center for Research and Technology Hellas, Greece

WPR.11 – Opportunistic Networks

Sergio Palazzo, University of Catania, Italy

WPR.A – Security in Wireless Networks

Merouane Debbah, SUPELEC, France

WPR.B – Localization and Positioning Techniques

Davide Dardari, CNIT- Pisa, Italy

WPR.C – Flexible Radio Platforms

Dominique Noguét, CEA - LETI, France

11:30 Poster Session 11f: **RAS Poster Session 3**

Chair: **Bart Van Caenegem, European Commission, Belgium**

A Bandpass Sampling Architecture Analysis for ULP Standards based on a Novel System Design Methodology

Luis Lolis, CEA-Leti-MINATEC, France

A general and rigorous transmission and receiver model targeting high bit-rate ASK and DnPSK direct detection systems influenced by dispersion, ASE noise, thermal noise and laser phase noise

Gunnar Jacobsen, Acreo AB, Sweden

Modelling and Investigation of Energy-efficient Clustering for WSNs

Dali Wei, CCSR, United Kingdom

Towards Dynamic Application-Dependent Protocol Stacks for WSANs

Jussi Haapola, University of Oulu, Finland

Resource Allocation Auction and Routing Game in Ad-hoc Networks

Omar Raoof, Brunel University, United Kingdom

Ethernetworking: Scaling Ethernet to Carrier Grade

Olli-Pekka Lamminen, Aalto University, Finland

Secure Routing for Supporting Ad-hoc Extreme Emergency Infrastructures

Emmanouil Panaousis, Kingston University London, United Kingdom

Refined Radio Innovation Areas for IMT-Advanced within the WINNER+ Project

Afif Osseiran, Ericsson, Sweden

Coordinated Beamforming for IMT-Advanced in the Framework of WINNER+ Project

Mauro Boldi, Telecom Italia, Italy

13:15 Lunch

14:30 Session 12a: **Wireless Network Planning and Monitoring**

Chair: **tbc**

Theoretical and Experimental Analysis of the Channel Busy Fraction in IEEE 802.11

Peter Dely, Karlstad University, Sweden

Effective and Robust Detection of Jamming Attacks

Alexandros Fragkiadakis, Foundation for Research and Technology, Greece

Monitoring system for Carrier Grade MESH Networks

Krzysztof Loziak, University of Science and Technology, Poland

Position Optimization for Moving Access Points

Panagiotis Demestichas, University of Piraeus Research Center, Greece

14:30 Session 12b: **RAS Showcase III**

Chair: **Friedbert Berens, FBConsulting Sarl, Luxembourg**

ARTIST4G: A Way Forward to the Interference Problem in Future Mobile Networks

Alexandre Gouraud, France Telecom, France

The EARTH Project: Towards Energy Efficient Wireless Networks

Hauke Holtkamp, DOCOMO Euro-Labs, Germany

Cognitive radio and cooperative strategies for power saving in multi-standard wireless devices

Jonathan Rodriguez, Instituto de Telecomunicacoes, Portugal

Energy Efficiency Approaches for Radio Nodes

Dieter Ferling, Alcatel-Lucent Deutschland AG, Germany

Achieving Low-Latency in Wireless Communications

Raymond Knopp, EURECOM, France

14:30 Session 12c: **Future Internet Self-Management Frameworks II**

Chair: **Paul Mueller, TU Kaiserslautern, Germany**

Virtualisation Platform for the introduction of cognitive systems in the Future Internet

Vera Stavroulaki, University of Piraeus, Greece

An Approach for Designing Cognitive Self-Managed Future Internet

Andrej Mihailovic, King's College London, United Kingdom

An Autonomic Hierarchical Mobility Management Framework for 3GPP Heterogeneous Networks

Zhaojun Li, Fujitsu Laboratories of Europe Limited, United Kingdom

Link Group Management for Carrier-grade Wireless Mesh Networks

Bernd Gloss, Bell Labs, Alcatel-Lucent, Germany

Movement Recognition using the Accelerometer in Smartphones

Sian Lun Lau, University of Kassel, Germany

14:30 Session 12e: **NEWCOM++ Dissemination Day**

Demonstrations and Posters

16:15 End of Parallel Sessions

16:30 Session 13a

Closing Plenary

Chair: **Rainer Zimmerman, European Commission, Belgium**

The Network of the Future Work Programme 2011 - 2012

Rainer Zimmerman, European Commission, Belgium

Future Internet Public Private Partnership

Jose María Cavanillas, Atos Research & Innovation, Spain

Best Paper Award

Best Demonstration Stand Award

17:15 End of Conference

Programme as at 10 June 2010. Please check online Programme for most up to date information

Registration Information

It is necessary for all **Future Network & MobileSummit 2010** delegates to register online. Each delegate should be registered separately.

Conference Fees

Authors Fees (Due by 31 March)

- 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 will present one paper in the Programme. Co-authors who wish to participate should register as Delegates.

Delegates' Fees - Early Bird (Due by 31 March)

- Early Bird €600

Delegates' Fees - Full Fee from 01 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
- Networking Reception - Wednesday 15 June
- Cyber Café facilities

Terms & Conditions

1. All authors who are presenting a paper at **Future Network & MobileSummit 2010** must complete their payment registration and ensure payment is received by **31 March** at the latest, prior to publication of the Final Programme.
2. In the case where a paper is jointly authored, the presenter of the paper is considered to be the author/presenter from a payment registration point of view. All co-authors are considered to be delegates.
3. Each presenter may present one paper in the Programme. Additional accepted papers must be reassigned to a presenter not already in the Programme.
4. Accepted Exhibitors (other than accepted presenters) must complete payment registration by **31 March**.
5. Delegates' fees must be paid before admission to the Conference and Exhibition.
6. IEEE Members are entitled to apply for a 10% discount on the appropriate fee. Please provide Membership No. as part of online registration and fax a copy of valid Membership card to +353-1-8170606.
7. There are **no refunds for cancellations** but substitutions may be made at any time prior to the event by contacting the Conference Secretariat.
8. The Conference Organisers reserve the right not to accept any conference registration either online or onsite without providing a reason.
9. Each individual must be registered separately on the **Future Network Summit** Conference portal.
10. Payment may be made by bank transfer or credit card (with some restrictions). Payments made by bank transfer must be **net of any bank charges** and the payment instruction should refer to "**Future Network & MobileSummit 2010**", your name, organisation and invoice number (if relevant).

Conference & Exhibition

11. Receipts are automatically issued electronically upon receipt of payment. If your organisation requires an invoice to process payment registration by bank transfer, please contact the Conference Secretariat.
12. Conference registration or hotel accommodation is not confirmed until full payment is received.
13. Online registration facilities conference registration, participation in pre-conference event, booking of hotel accommodation, attendance at Welcome Networking Reception and Conference Dinner. It is possible to go back through online registration at any stage, book items not previously confirmed and make payment.
14. The registration desk will open on Tuesday 15 June from 14:30 to 17:00 and will remain open during normal conference hours from 08:00 on Wednesday.

Florence

Florence offers a rich tapestry of Renaissance art and architecture as well as shopping and relaxation opportunities. Delegates should visit Piazza della Signoria, Via Maggio and Via Tornabuoni in the old town. The Uffizi, Bargello, Pitti and Accademia house many of Florence's art and sculpture.

Delegates should also visit nearby Pisa, Siena, Lucca and San Gimignano in Tuscany.

The Amerigo Vespucci Airport is 4kms from the city centre, with flights provided by Air France, Alitalia, Brussels Airlines, Lufthansa and Swiss Airlines. The other option is Pisa Galileo Galilei Airport which is 80kms from Florence. There is a direct train to Florence Santa Maria Novella train station or bus service offered by Terravision.

The main train station is the Santa Maria Novella station, which is located in the city centre near the main tourist sites.

For delegates travelling by car, there is parking available at the conference venue, Sheraton Firenze, which is five kms from the city centre. Most of the tourist areas city centre is located in a limited traffic zone, controlled by short circuit cameras. The Sheraton provides a shuttle for guests who wish to visit the city centre.

Sponsors

The Firenze Convention Bureau is kindly hosting the Networking Reception on Wednesday 16 June in the Exhibition. **Technical Co-Sponsors** include IEEE Italy Section, IEEE Italy Communications Chapter and IEEE Italy Computer Chapter.



Exhibition

Future Network & MobileSummit 2010 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
ALPHA project	Telefonica I+D S.A.U.	Spain
CARMEN: CARrier-grade wireless MESH Networks	Bell Labs, Alcatel-Lucent	Germany
C-CAST: Context Casting	Portugal Telecom Inovação S.A.	Portugal
DaVinci project	IMEC	Belgium
eMobility	Ericsson	Germany
Ethernetworking: Scaling Ethernet to Carrier Grade	Aalto University	Finland
EUWB - The European UWB project	GWT-TUD GmbH	Germany
FP7 OMEGA	Orange Labs, France Telecom	France
FUTON: Demonstration of Advanced RoF Architecture & Prototype	OTE SA	Greece
HURRICANE	National Center for Scientific Research "Demokritos"	Greece
ICT BONE	UoP	Greece
NEWCOM++ Showcase	CNIT (UdR Catania)	Italy
PERSIST	LAKE Communications	Ireland
PHYDYAS	SINTEF	Norway
Self-Organising Networks for LTE (SOCRATES)	IBBT / University of Antwerp	Belgium
SENDORA - Sensor Network for Dynamic and Cognitive Radio Access	THALES	France
SENSEI - Pan European Test Platform	Telefonica I+D	Spain
SMART-Net: SMART-antenna multimode wireless mesh Network	Thales Communications	France
TIGER2: Together IP, GMPLS and Ethernet Reconsidered, Phase 2 (CELTIC)	Alcatel Lucent	France
Where Project	DLR e.V.	Germany
WiMAGIC	Rinicom Ltd	United Kingdom
WINNER+	Elektrobit	Finland

Posters

Stand Name	Organisation	Country
OASE FP7 project	JCP-Consult	France