



Future Network & MobileSummit 2013 Final Programme

Lisbon - Portugal

03 - 05 July 2013

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Introduction

Future Network & MobileSummit 2013 Conference & Exhibition takes place 03 - 05 July 2013 in the Sana Lisboa, Lisbon, Portugal. This is the twenty-second in a series of Annual Conferences supported by the European Commission, which regularly attracts 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 FP7-ICT and Horizon 2020. 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 2013 will address the challenges of building the Future Internet Infrastructures, 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, Integrated Satellite Communications, Internet of Things and Future Internet Technologies.

Supported by the European Commission and Net!Works, **Future Network & MobileSummit** integrates high-level industry/policy plenary sessions that discuss strategic issues for Future Networks with high quality technical/scientific tracks and workshop sessions.

Welcome

Dear Colleagues,

Welcome to the 2013 edition of FuNeMS – Future Network and Mobile Summit.

This is the 22nd edition of a series of conferences sponsored by the European Commission in the area of communications and networks. It all started with a workshop in Nuremberg, Germany, in 1992, called "RACE Mobile Telecommunications Workshop". By then, we were in the beginning of this adventure of mobile and wireless communications, with data already foreseen to be transmitted (at rates between 2.4 and 9.6 kbps), and mobile-fixed convergence was an unknown word in telecommunications. We came a long way since then. Nowadays, we have commercial offer of 100 Mbps in mobile cellular communications, as well as in residential fixed networks via fibre to the home. What a progress we have witnessed, and contributed to!



As you know, the acceptance of papers in a conference is limited by both absolute and relative thresholds. The former means that papers that are below the technical borderline cannot be accepted; the latter implies that some papers that are above this technical borderline will not be accepted either, because the conference does not have capacity for them. This was the case for FuNeMS'2013 as well, in which we accepted around 50% of the papers for oral presentation, and 10% more as posters. All papers had, at least, 3 reviews from the members of the Technical Programme Committee (43% had even 4 reviews), which means that all these papers went through a sound review process. This also means that all these accepted papers are considered full papers, and will be uploaded to IEEE Xplore. We got quite many submissions of workshop proposals, 17, of which we could only accommodate 6. We chose the ones that were not superimposing and that are addressing some of the "hot topics" in research today.

One of the objectives of this series of conferences is to showcase the projects co-funded by the European Commission. As a consequence, in all its editions, the conference has allowed these projects to present themselves and the results of the research performed in the projects, as well as to show prototypes and demonstrations. The cycle of the starting new projects, linked to the cycle of the Calls for Projects within the Framework Programmes, is independent of the one of the conference. This year, the Call for Papers was too soon for projects that started recently to submit results from their work, but it was considered that by the time of the conference there could be already some initial results worthwhile showing to the scientific community. As a result, a Call for Posters (supported on short abstracts) was launched, proposals being reviewed by Steering Committee, and a number of posters are being presented in the conference as well.

On behalf of the Steering Committee and of the Technical Programme Committee colleagues, who were in charge of the technical and scientific matters, I would like to thank all of those who have contributed to the success of the conference: the authors of the papers and workshops submitted to the conference; the invited keynote speakers, panels' members, and sessions' chairpersons, who accepted the invitation to be here, hence, providing an excellent added value to the conference; the members of the Committees, who provided the necessary expertise and performed an excellent work in shaping the conference programme; last, but not the least, all people involved in the organisation of the conference.

I hope that you enjoy both the conference and the city of Lisbon. Thank you for coming.

Luis M. Correia

Professor, IST-INOV/INESC – Tech. Univ. Lisbon, Portugal

(Steering Committee and Technical Programme Committee Chair)

Who will you meet?

Future Network & MobileSummit 2013

Conference & Exhibition attracts practitioners and researchers from leading commercial and research organisations around the world. Unlike many research conferences, **Future Network & MobileSummit 2013** 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.

The Venue

Future Network & MobileSummit Conference & Exhibition takes place in the Sana Lisboa, Av. Fontes Pereira de Melo, 8, Lisbon, Portugal.

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 25 thematically focused parallel sessions featuring different aspects of Radio Access and Spectrum, Converged and Optical Networks, Integrated Satellite Communications, Internet of Things and Future Internet Technologies. The Conference Programme is complemented by a demonstration and technology exploitation focused Exhibition, a Reception which will take place on Wednesday 03 July 2013 and a Conference Dinner on Thursday 04 July 2013.

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.

Conference Proceedings

The **Future Network & MobileSummit 2013** 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 2013**, 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.

The Organisers 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 Lisbon. 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 Sana Lisboa (Conference venue).

Conference hotel accommodation should be booked online on the **Future Network & MobileSummit 2013** 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/2013

Conference Dinner - 04 July

The Organisers are pleased to announce that the Conference Dinner will be held on Thursday 04 July at 20:00.

The dinner venue has a fixed capacity and delegates are requested to confirm their participation no later than 14 June as part of online registration.

Organisers & Conference Secretariat

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



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Keynote Speakers



Mario Campolargo
European Commission



Zeinal Bava
Portugal Telecom



Dr. Aref Chowdhury
Alcatel-Lucent



Ulf Wahlberg
Ericsson



Dr Stefan Ferber
Bosch

Keynote Speakers confirmed as at 18 June include:

- **Mario Campolargo**, Net Futures, DG Communications Networks, Content and Technology, European Commission
- **Zeinal Bava**, CEO, Portugal Telecom
- **Dr. Aref Chowdhury**, Chief Technology Officer Optics, Alcatel-Lucent
- **Ulf Wahlberg**, Vice President, Industry and Research Relations, Ericsson Group, Function Technology
- **Dr. Stefan Ferber**, Director Business Development, Bosch Software Innovations

Towards Virtualised Networks Panelists



Dr Diego R. Lopez
Telefonica I+D



Dr Akihiro Nakao
University of Tokyo



Dr Yaron Wolfsthal
IBM Research Lab



Dr Krishan Sabnani
Alcatel-Lucent



Dr Andreas Gladisch
Deutsche Telekom



Dr Jörg-Peter Elbers
ADVA Optical Networking

- **Dr Diego R. Lopez**, Head of Technology Exploration Activities, GCTO Unit, Telefonica I+D, Spain (Chair)
- **Dr Akihiro Nakao**, Head of Nakao Labs, University of Tokyo, Japan
- **Dr Yaron Wolfsthal**, DGM, Systems Research, IBM Haifa Research Lab, Israel
- **Dr Krishan Sabnani**, Senior Vice President, Networking Research, Alcatel-Lucent, USA
- **Dr Andreas Gladisch**, Head of Department, Deutsche Telekom T-Labs, Germany
- **Dr Jörg-Peter Elbers**, Vice President Advanced Technology, ADVA Optical Networking, Germany

Optical Networking Panelists



Sergi Figuerola
i2CAT



Matthew Finnie
Interoute



Juan Fernández-Palacios
Telefonica I+D



Dr Ori Gerstel
Cisco



Prof Dave Payne
Aston University



Adrian Farrel
Old Dog Consulting

- **Sergi Figuerola**, Technology and Innovation Director, i2CAT, Spain (Chair)
- **Matthew Finnie**, CTO & EVP, Interoute, UK
- **Juan Fernández-Palacios**, Head of the Core Network Evolution unit, Telefonica I+D, Spain
- **Dr Ori Gerstel**, Principal Engineer, Cisco, Israel
- **Prof Dave Payne**, Aston University, UK
- **Adrian Farrel**, Area Director ISTF and CEO, Old Dog Consulting, UK

Public Safety Future Networks Panelists



Isabelle Bucaille
Thales



Jim Strother
BAPCO



Prof Shigeru Shimamoto
Waseda University



Thomas Weber
ECO

- **Isabelle Bucaille**, Thales Communications & Security, France (Chair)
- **Jim Strother**, British Association of Public Safety Communications Officials, UK
- **Prof Shigeru Shimamoto**, Waseda University, Japan
- **Thomas Weber**, European Communications Office, Denmark
- **Serge Delmas**, CASSIDIAN SAS, France

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- Ovidiu Vermesan, SINTEF, Norway
- Fiona Williams, Ericsson, Germany

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- Paulo Marques (Radio Access and Spectrum), IT Aveiro, Portugal
- Dimitra Simeonidou (Converged and Optical Networks), University of Bristol, UK
- Alessandro Vanelli (Integrated Satellite Communications), University of Bologna, Italy
- Ovidiu Vermesan (Internet of Things), SINTEF, Norway

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 Yulei Wu, Chinese Academy of Sciences, China
 Gerhard Wunder, Fraunhofer Heinrich Hertz Institut, Germany
 Ana Yun, Thales Alenia Space Espana, Spain
 Sven Zeisberg, InnoTec21 GmbH, Germany
 Yan Zhang, SIMULA Research Laboratory, Norway, Norway



Wednesday,
July 3, 2013

08:00 Registration

09:00 Opening Plenary 1a: [Opening Plenary & Keynote 1](#)

Chair: [Luis M. Correia, IST/INOV-INESC - Tech. Univ. Lisbon, Portugal](#)

Opening Address by General Co-chairs

Mário Campolargo, Director for "Net Futures", DG CONNECT, European Commission

Zeinal Bava, CEO, Portugal Telecom

Entering the Terabit Era

Aref Chowdhury, Chief Technology Officer Optics, Alcatel-Lucent

10:30 Coffee Break - Exhibition and Posters (RAS & SAC)

11:00 Panel Session 2a: [Optical Networking: Enabler for the Future Converged Networks](#)

Chair: [Sergi Figuerola, i2CAT Foundation, Spain](#)

Panelists include:

Sergi Figuerola, Technology and Innovation Director, i2CAT, Spain

Matthew Finnie, CTO & EVP, Interoute, UK

Juan Fernández-Palacios, Head of the Core Network Evolution unit, Telefonica I+D, Spain

Dr Ori Gerstel, Principal Engineer, Cisco, Israel

Prof Dave Payne, Aston University, UK

Adrian Farrel, Area Director ISTF and CEO, Old Dog Consulting, UK

12:30 Lunch

13:30 Session 3a: [Poster Session - RAS & SAC](#)

Cognitive Beamhopping for Spectral Coexistence of Multibeam Satellites (FP)

Symeon Chatzinotas, University of Luxembourg, Luxembourg

DUPLO: Full-Duplex Radios for Local Access (AP)

Kari Rikkinen, Renesas Mobile Europe, Finland

Cross-layer Optimized Delivery for Interactive Multimedia Healthcare Services: The CONCERTO Architecture (AP)

Lorenzo Iacobelli, Thales Communications and Security, France

Economic evaluation of a cognitive radio based solution for increasing capacity of LTE networks (FP)

Ole Grøndalen, Telenor ASA, Norway

On the Design of Discovery Patterns for Half-Duplex TDD Nodes Operating in Frame-Based Systems (FP)

Esa Tirola, Nokia Siemens Networks, Finland

Using the ZDelta Compression Algorithm for Data Reduction in Cellular Networks (FP)

Jacob Gutman, Jerusalem College of Technology, Israel

LTE Energy Saving SON Using Fingerprinting for Identification of Cells to be Activated (FP)

Elke Roth-Mandutz, Ilmenau University of Technology, Germany

The Playground of Wireless Dense Networks of the Future (FP)

Arianna Morelli, Intecs SpA, Italy

On the Design of an E-band Link for the Backhaul of Future Networks (AP)

Igone Velez, CEIT, Spain

The fifth Generation (5G) Wireless Communications System: Challenges and Scenarios (AP)

Afif Osseiran, Ericsson, Sweden

Convergent optical-wireless network for ultra-high speed fixed and radio access (AP)

Carlos Bock, i2CAT, Spain

ICT-ACROPOLIS: Spectrum Sharing and Coexistence based on the Cognition Cycle (AP)

Oliver Holland, Kings College London, United Kingdom

HARP - High capacity network Architecture with Remote radio heads & Parasitic antenna arrays (AP)

Lars Dittmann, Technical University of Denmark, Denmark

DIWINE -- Dense Cooperative Wireless Cloud Network (AP)

Hrjehor Mark, TU Dresden, Germany

5GNOW: Application Challenges and Initial Waveform Results (AP)

Gerhard Wunder, Fraunhofer Heinrich Hertz Institut, Germany

Designing a QoE Aware Intelligent Home Gateway for Future Smart Homes (FP)

Varuna De Silva, University of Surrey, United Kingdom

Challenges of designing jointly the backhaul and radio access network in a cloud-based mobile network (FP)

Andreas Maeder, NEC Network Laboratories Europe, Germany

Techno-Economic Gains Analysis of Services over an Information-Centric Integrated Satellite-Terrestrial Network (FP)

George Polyzos, Athens University of Economics and Business, Greece

FP = Full Poster Paper, AP = Abstract Poster Paper

14:30 Workshop 4a: [Research Challenges for Communications in 2020](#)

Chair: [Afif Osseiran, Ericsson, Sweden](#)

Welcome and Introduction

Afif Osseiran, Ericsson, Sweden

5G Challenges: How the Future in 2020 will be like

Afif Osseiran, Ericsson, Sweden

Challenges in Air Interface: Initial Waveform Results of 5GNOW

Gerhard Wunder, Fraunhofer Heinrich Hertz Institut, Germany

Challenges in Positioning and its Impact on Communication Networks

Ronald Raulefs, DLR e.V., Germany

Challenges in Mutualization of Fixed and Mobile Networks

Jean-Charles Point, JCP-Consult, France

14:30 Workshop 4b: [Opportunities, Challenges and Interplay of Next Generation Optical and Wireless Access Networks](#)

Chair: [Pandelis Kourtessis, University of Hertfordshire, United Kingdom](#)

FSAN and the Prepared Path beyond NG-PON2: A System Vendor View

Antonio Teixeira, Coriant/ DETI/ IT / UA, Portugal

Latest Results from the ACCORDANCE OFDMA-PON project

Dimitrios Klonidis, AIT, Greece

Overview of the COCONUT EU Physical Layer Benefits and Challenges

Josep Prat, UPC, Spain

14:30 Workshop 4c: [Mobile Cloud Networking and Edge ICT Services](#)

Chair: [Thomas Bohnert, ZHAW, Switzerland](#)

Welcome

Thomas Bohnert, ZHAW, Switzerland

Cloud Computing Challenges on Supporting Cloud based LTE Systems

Giada Landi, Nextworks, Italy

Cloud-based RAN (Radio Access Network) Challenges

Lucio Ferreira, IST-TUL / INOV, Portugal

Virtualizing the LTE Evolved Packet Core: Challenges and Possible Solutions

Tarik Taleb, NEC Europe, Germany

Follow Me Cloud and Virtualization of (Multimedia) Services and Applications: Challenges and Possible Solutions

André Gomes, University of Bern, Switzerland

14:30 Session 4d: [Service and Content Delivery](#)

Chair: [Aiko Pras, University of Twente, Netherlands](#)

Real-Time Immersive Multimedia Experience for Collaborating Users over Hybrid Broadcast Networks

Erhan Ekmekcioglu, University of Surrey, United Kingdom

Ubiquitous Connectivity Platform for Public Transport Communication Services

Miguel Egido, Gowex Wireless S.L., Spain

Application service quality indication to end-users in IP based networks as added value service

Andreas Roos, Deutsche Telekom AG, Germany

OpenFlow-based Content-Centric Networking Architecture and Router Implementation

Atsushi Ooka, Graduate School of Information Science and Technology, Osaka University, Japan

An Overlay Network Approach to Find Objects in the Future Internet

Pedro Martinez-Julia, University of Murcia, Spain

14:30 Session 4e: **Cognitive Radio Systems and Standards**

Chair: **Paulo Marques, Instituto de Telecomunicacoes, Portugal**

Spectrum sharing in the EU and the path towards standardization

Paulo Marques, Instituto de Telecomunicacoes, Portugal

Enhanced OFDM Techniques for Fragmented Spectrum Use

Saeed Afrasiabi Gorgani, Tampere University of Technology, Finland

Cognitive architecture and system solutions to offload LTE networks in TWWS

Genevieve Mange, Alcatel Lucent Bell Labs, Germany

Dynamic and Reconfigurable M2M Wireless Network with QoS-based Control

Masayuki Ariyoshi, Advanced Telecommunications Research Institute International (ATR), Japan

Agent Transfer Learning for Cognitive Resource Management on Multi-hop Backhaul Networks

Qiyang Zhao, University of York, United Kingdom

16:10 **Coffee Break - Exhibition and Posters (RAS & SAC)**16:40 Workshop 5a: **Research Challenges for Communications in 2020**

Chair: **Angeliki Alexiou, University of Piraeus, Greece**

WWRF Introduction

Angeliki Alexiou, University of Piraeus, Greece

Internet on the Move and Challenges

Rahim Tafazolli, CCSR, University of Surrey, United Kingdom

Spectrum Policy Developments for Future Wireless Systems

Peter Stuckmann, European Commission, Belgium

Wireless Enablers for Mobile Computing

Jim Womack, Blackberry, United States

Questions and Session Closing

Angeliki Alexiou, University of Piraeus, Greece

16:40 Workshop 5b: **Opportunities, Challenges and Interplay of Next Generation Optical and Wireless Access Networks**

Chair: **Josep Prat, UPC, Spain**

Base Stations in the Cloud

Michael Soellner, Alcatel-Lucent Deutschland AG, Germany

UDWDM-PON Based Solutions for Small Cell Backhauling

Gemma Vall-Ilosera, Ericsson AB, Sweden

Sharing Opportunities between Optical Access and Cloud-RAN Fronthauling

Philippe Chanclou, Orange Labs, France

Towards Converged Optical/Wireless Access Networks with Enhanced Flexibility and QoS

Pandelis Kourtessis, University of hertfordshire, United Kingdom

16:40 Workshop 5c: **Mobile Cloud Networking and Edge ICT Services**

Chair: **Antonio Manzalini, Telecom Italia, Italy**

Welcome

Antonio Manzalini, Telecom Italia, Italy

A Network of Functions: How to Decompose and Distribute Operator's Services in the Broadband Access Network

Roberto Bifulco, NEC Laboratories Europe, Germany

Moving Network Applications from Hosts to the Edge of the Network

Fulvio Rizzo, Politecnico di Torino, Italy

From Network Virtualization to Network Abstraction: Benefits and Opportunities in a Telco/IT Converged World

Domenico Siracusa, CREATE-NET, Italy

Cognitive Edge Nodes for Realizing Future Edge Clouds

Aimilia Bantouna, University of Piraeus Research Center, Greece

16:40 Session 5d: **Cloud, Federation and Cooperation**

Chair: **Markus Fiedler, Blekinge Institute of Technology (BTH), Sweden**

SMARTenIT Cloud Traffic Management Approach and Architectural Considerations

Ioanna Papafili, Athens University of Economics and Business, Greece

Cloud-based Computation Offloading for Mobile Devices: State of the Art, Challenges and Opportunities

Xiaoming Fu, University of Goettingen, Germany

Convergence of Heterogeneous Network and IT infrastructures in Support of Fixed and Mobile Cloud Services

Anna Tzanakaki, AIT, Greece

Architecture for the Heterogeneous Federation of Future Internet Experimentation Facilities

Alexander Willner, TU-Berlin, Germany

Selfish and Malicious Behavior in Delay Tolerant Networks

Naécio Magaia, INESC-ID, Portugal

16:40 Session 5e: **Green Wireless**

Chair: **Didier Bourse, Alcatel-Lucent, France**

A Novel Future Internet Smart Grid Application for Energy Management in Offices

Rico Kusber, University of Kassel, Germany

Energy-efficient Coordinated Resource Allocation for the Downlink of Cellular Systems

Fabien Heliot, University of Surrey, United Kingdom

Green Joint User Scheduling and Power Control in Downlink Multi-cell OFDMA Networks

Stefano Buzzi, CNIT / University of Cassino, Italy

Macro-Cell Overlaid Green Topology Management for Beyond Next Generation Mobile Broadband Systems

Salahedin Rehan, University of York, United Kingdom



Thursday,
July 4, 2013

09:00 Plenary Session 6a: **Plenary II**

Chair: **Luis Rodriguez-Rosello**, European Commission, Belgium

Technology Inspiring a Connected Life: The Internet of Things & Services

Stefan Ferber, Director Business Development, Bosch Software Innovations

Next Generation Mobile Network as Enabler for the Network Society

Ulf Wahlberg, Vice President, Industry and Research Relations, Ericsson

10:30 Coffee Break - Exhibition and Posters (CaON, FIT & IoT)

11:00 Panel Session 7a: **Public Safety Future Networks**

Chair: **Isabelle Bucaille**, Thales Communications & Security, France

Panelists include:

Isabelle Bucaille, Thales Communications & Security, France

Jim Strother, British Association of Public Safety Communications Officials, UK

Prof Shigeru Shimamoto, Waseda University, Japan

Thomas Weber, European Communications Office, Denmark

Serge Delmas, CASSIDIAN SAS, France

12:30 Lunch

13:30 Session 8a: **Poster Session (CaON, FIT & IoT)**

Reducing Internet Transport Latency for Thin Streams and Short Flows (FP)

Anna Brunstrom, Karlstad University, Sweden

Fiber to the distribution point (FTTdp) architecture for single user based on hybrid fiber and copper scheme (FP)

Philippe Chanclou, Orange Labs, France

Towards Automated Interactions between the Internet and the Carrier-Grade Management Ecosystems (FP)

Marek Drogon, TU Braunschweig, Germany

A new meta-model for Future Internet architectures (AP)

Hans Joachim Einsiedler, Deutsche Telekom, Germany

DISCUS: the Distributed Core for Ubiquitous Broadband Access (AP)

David Payne, Trinity College, Ireland

A Case Study of Cross-Platform Web Application Capability (AP)

Dan Johansson, Luleå University of Technology, Sweden

Low Exposure future NETWORKS (AP)

Carla Oliveira, IST-TUL, Portugal

Network Monitoring Architecture based on Home Gateways (AP)

Anna-Kaisa Pietilainen, UPMC, France

eCOUSIN: enhanced Content distribUtion with Social INformation (AP)

Yannick Le Louedec, Orange / France Telecom, France

Clouds for Community Networks (AP)

Felix Freitag, Technical University of Catalonia (UPC), Spain

Gateway-based Home Network Optimizations (AP)

Stephane Gouache, Technicolor, France

Content Management in the Figaro Home Ecosystem (AP)

Claudio Casetti, Politecnico di Torino, Italy

Data plane efficiency of a hybrid multicast approach for content aware networks (AP)

António Pinto, INESC Porto, Portugal

Evaluation of RF-based Indoor Localization Solutions for the Future Internet (AP)

Arash Behboodi, Technische Universität Berlin, Germany

Information Exchange between Law Enforcement Authorities (AP)

Jyri Rajamäki, Laurea University of Applied Sciences, Finland

OCEAN: Open Content Aware Networks (AP)

Cornelius Hellge, Fraunhofer HHI, Germany

Round-trip time mitigation through speculative display updating for applications rendered in the cloud (FP)

Bert Vankeirsbilck, Ghent University - iMinds, Belgium

Converging Sensor and Home Networks (AP)

Gerhard Mekenkamp, TP Vision, Netherlands

SmartSantander: A joint service provision facility and experimentation-oriented testbed, within a smart city environment (AP)

Juan Ramón Santana, University of Cantabria, Spain

FP = Full Poster Paper, AP = Abstract Poster Paper

14:30 Workshop 9a: **Future Wired and Wireless Networks: Green, Heterogeneous and Cloud-powered**

Chair: **Stefano Buzzi**, CNIT / University of Cassino, Italy

Benefits and Challenges of Cloud Technologies for 5G Networks

Andreas Maeder, NEC Network Laboratories Europe, Germany

An Innovative Framework for Monitoring Energy Consumption of Wireless Transceivers and collection of Measurements through Wireless Sensors

Stratos Keranidis, University of Thessaly (UTH), Greece

Mobile Cloud Networking: An Opportunity and Challenge for the Mobile Telco Business

Thomas Bohnert, ZHAW, Switzerland

Applying Follow Me and Service Migration & Continuity Features in Cloud based LTE Systems

Georgios Karagiannis, University of Twente, Netherlands

14:30 Workshop 9b: **Smart Connected World: the Celtic-Plus EUREKA R&D programme. Overview and Matchmaking opportunities**

Chair: **Jacques Magen**, Celtic-Plus Chairman

Welcome and Latest News of Celtic-Plus

Jacques Magen, Celtic-Plus Chairman

Eureka Portugal and Interaction with Celtic-Plus

Jorge Liz, Portuguese Eureka NCP, FCT, Portugal

Celtic-Plus and H2020 Network Technologies: What Interaction?

Bernard Barani, European Commission, Belgium

Research Priorities and Business Aspects of some Celtic-Plus Core Group Companies

Nokia Siemens Networks

Lauri Oksanen, Nokia Siemens Networks, Finland

Alcatel-Lucent Bell Labs

Didier Bourse, Alcatel-Lucent, France

France Telecom/Orange Labs

Pierre-Yves Danet, Orange, France

Eurescom

David Kennedy, Eurescom, Germany

14:30 Workshop 9c: **Management Frameworks for Future Mobile Communication Networks**

Chair: **Chris Blondia**, University of Antwerp - iMinds, Belgium

Management Frameworks for Future Mobile Communication Networks: Main Challenges

Henning Sanneck, Nokia Siemens Networks, Germany

Challenges for Heterogeneous Network Management and Coordination

Pierre Peloso, Alcatel-Lucent Bell Labs, France

Challenges for Network Management Frameworks Dealing with Uncertainty

Seppo Hämmäläinen, Nokia Siemens Networks, Finland

14:30 Session 9d: **Elastic Optical Networks**

Chair: **Juan Pedro Fernandez-Palacios**, TELEFONICA R&D, Spain

Elastic Optical Networks: the Vision of the ICT Project IDEALIST

Juan Pedro Fernandez-Palacios, TELEFONICA R&D, Spain

Migration Steps Towards Flexi-grid networks

Oscar Gonzalez de Dios, Telefonica I+D, Spain

IDEALIST control and service management solutions for dynamic and adaptive flexi-grid DWDM networks

Ramon Casellas, CTTC, Spain

Defragmentation of Fixed/Flexible grid Optical Networks

Daniel Fonseca, Coriant Portugal, Portugal

Software Defined Transceivers for High-speed Flexible Optical Networks

Julian Hoxha, University Roma Tre, Italy

14:30 Session 9e: **Cloud Networks and Small Cells**

Chair: **Luis Muñoz, University of Cantabria, Spain**

RAN as a Service: Challenges of designing a flexible RAN architecture in a cloud-based heterogeneous mobile network

Atta ul Quddus, University of Surrey, United Kingdom

Customized Services over Virtual Wireless Networks: The Path towards Networks without Borders

Luiz DaSilva, Trinity College Dublin, Ireland

Optical fiber solution for mobile fronthaul to achieve Cloud Radio Access Network

Philippe Chanclou, Orange Labs, France

Joint Allocation of Radio and Computational Resources in Wireless Application Offloading

Olga Muñoz, Universitat Politècnica de Catalunya, Spain

The Risks of WiFi Flexibility: Enabling and Detecting Cheating

Janusz Gozdecki, AGH University of Science and Technology, Poland

16:10 Coffee Break - Exhibition and Posters

16:40 Workshop 10a: **Future Wired and Wireless Networks: Green, Heterogeneous and Cloud-powered**

Chair: **Roberto Bruschi, CNIT, Italy**

Differentiated Quality of Protection Schemes for Improved Energy Efficiency in Optical Transport Networks

Jorge Lopez Vizcaino, Huawei Technologies Duesseldorf GmbH, Germany

Converging Heterogeneous Network and IT Infrastructures for Cloud and Mobile Cloud Applications: Energy Implications

Anna Tzanakaki, AIT, Greece

Towards a Convergent Fixed-mobile Access-aggregation Infrastructure for Energy-efficient Broadband Networking: the COMBO project

Achille Pattavina, Politecnico di Milano, Italy

Maintaining Network Connectivity for Sleeping Devices: Opportunities and Challenges in Shifting the Approach beyond the LAN Boundaries

Maurizio Giribaldi, infocom SRI, Italy

Energy Efficiency in Next-generation Datacenter Networks

Franco Davoli, University of Genoa / CNIT, Italy

16:40 Workshop 10b: **Smart Connected World: the Celtic-Plus EUREKA R&D programme. Overview and Matchmaking opportunities**

Chair: **Maria Joao Barros Weiss, Celtic-plus, Germany**

Celtic-Plus Call for Proposals, Purple Book Research Items

Maria Joao Barros Weiss, Celtic-plus, Germany

Research Priorities and Funding Aspects in Portugal

Presenter to be confirmed

Celtic Projects with Portuguese Coordination

Green-T

Paulo Marques, Instituto de Telecomunicacoes, Portugal

ICARUS

Luis Campos, PDMFC, Portugal

LOOP

Ayman Radwan, Instituto de Telecomunicacoes, Portugal

OPTRONET

Paulo Monteiro, IT/ DETI/UA/Coriant, Portugal

Open Session to Project Proposal Presentations

16:40 Workshop 10c: **Management Frameworks for Future Mobile Communication Networks**

Chair: **Klaus Moessner, University of Surrey, United Kingdom**

Challenges for SON Functions and SON Management

Colin Willcock, Nokia Siemens Networks, Germany

The Development of SON for Future Mobile Networks

Neil Scully, Vodafone, United Kingdom

Discussion Panel on Next Steps: Filling the Standardization and Industry Gaps, Foster Industry Adoption, Roadblocks

16:40 Session 10d: **Internet of Things**

Chair: **Ovidiu Vermesan, SINTEF ICT, Norway**

A Cognitive Management Framework for Service Provisioning in the Internet of Things

Vera Stavroulaki, University of Piraeus, Greece

IoT multiplatform networking to monitor and control wineries and vineyards

Bruno Cendon, TST, Spain

Energy Efficient Relay-aided SharedNetwork Using CoMP and LB

Ayman Radwan, Instituto de Telecomunicacoes, Portugal

Supporting Smart-city Mobility with Cognitive Internet of Things

Andrey Somov, CREATE-NET, Italy

Test Derivation for Semantically Described IoT Services

Daniel Kümper, University of Applied Sciences Osnabrueck, Germany

16:40 Session 10e: **Advanced Radio Access and Post-LTE Systems**

Chair: **Werner Mohr, Nokia Siemens Networks Management International GmbH, Germany**

On the TDD Subframe Structure for Beyond 4G Radio Access Network

Eeva Lähetkangas, Nokia Siemens Networks, Finland

Fast-Convolution Filter Bank Approach for Non-Contiguous Spectrum Use

Markku Renfors, Tampere University of Technology, Finland



Friday,
July 5, 2013

DAY

09:00 Session 11a: **Self Organised Networks and Software Defined Networks**

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

Integrated Self-Management for Future Radio Access Networks - Vision and Key Challenges

Remco Litjens, TNO ICT, Netherlands

An Opportunistic Approach for Coverage and Capacity Optimization in Self-Organizing Networks

Andreas Georgakopoulos, University of Piraeus Research Center, Greece

A Control Architecture for Wireless MAC Processor Networking

Pierluigi Gallo, Università di Palermo, Italy

Computation offloading for mobile cloud computing based on wide cross-layer optimization

Stefania Sardellitti, Sapienza University of Rome, Italy

STEM-Net: An Evolutionary Architecture for Highly-Reconfigurable Wireless Networks

Giuseppe Ruggeri, University "Mediterranea" of Reggio Calabria, Italy

Live migration of virtual machines among edge networks via WAN links

Antonio Manzalini, Telecom Italia, Italy

09:00 Session 11b: **Emerging Optical Network Technologies and Functions**

Chair: **Fiona Williams, Ericsson GmbH, Germany**

An IP cross-layer scheduler for QoS provisioning in NGNs

Gianmarco Panza, CEFRIEL S.Cons.R.L., Italy

Virtualizing converged optical network and IT infrastructures: the benefits of dynamic virtual infrastructure re-planning

Giada Landi, Nextworks, Italy

Converged fixed and mobile broadband networks based on Next Generation Point of Presence

Jean-Charles Point, JCP-Consult, France

Target cost for Sliceable Bandwidth Variable Transponders in a Real Core Network

Ori Gerstel, Cisco, Israel

Cognitive Heterogeneous Reconfigurable Optical Network: A Techno-Economic Evaluation

Juan C. Aguado, Universidad de Valladolid, Spain

Record-High and Robust Capacity versus Reach Performance of Adaptive Real-Time Dual-Band Optical OFDM Signals for Upgrading Legacy MMF Systems

Emilio Hugues-Salas, Bangor University, United Kingdom

09:00 Session 11c: **Future Internet Architectural and Management Frameworks**

Chair: **Rui Aguiar, Instituto de Telecomunicacoes, Portugal**

Designing the Governance framework for network and service management in Future Networks

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

Network and Service Governance for the Management of Future Networks

Eleni Patouni, University of Athens, Greece

A Framework for Large-scale measurements

Philip Eardley, BT, United Kingdom

SANP : an Algorithm for Selecting End-to-End Paths with QoS Guarantees

Romain Jacquet, Telecom Bretagne, France

A common open interface to programmatically control and supervise open networks in the Future Internet.

Andi Palo, La Sapienza University of Rome, Italy

Making IEEE 802.11 Wireless Access Programmable

Evgeny Khorov, Institute for Information Transmission Problems (IITP RAS), Russian Federation

09:00 Session 11d: **Satellite Communications**

Chair: **Alessandro Guidotti, University of Bologna, Italy**

The BATS Project

Graham Peters, Avanti Communications, United Kingdom

Cognitive Radio Scenarios for Satellite Communications: The CoRaSat Approach

Joel Grotz, Newtec Cy, Belgium

Conditioned Pilots for ISI Channels

Nicolo' Mazzali, University of Parma, Italy

Flexible and Modular Support for Multicast Rate Adaptation in WLANs

Stefano Paris, Paris Descartes University, France

An Ad-hoc Emergency Network for Crisis Events

Daniela Saladino, University of Modena and Reggio Emilia, Italy

Experimenting with Services over an Information-Centric Integrated Satellite-Terrestrial Network

Maria Guta, ESA ESTEC, Netherlands

09:00 Session 11e: **COST ICT: Networks and More**

Chair: **Ralph Stübner, COST Office, Belgium**

The COST Domain for Information and Communication Technologies (ICT)

Soulla Louca, University of Nicosia, Cyprus

The COST Framework in a Nutshell

Ralph Stübner, COST Office, Belgium

COST Action IC0905: Techno-Economic Regulatory Framework for Radio Spectrum Access for Cognitive Radio/Software Defined Radio (TERRA)

Arturas Medeisis, VGTU, Lithuania

COST Action IC0902: Cognitive Radio and Networking for Cooperative Coexistence of Heterogeneous Wireless Networks

Jocelyn Fiorina, Supelec, France

COST IC1004 Activities: Cooperative Radio Communications for Spectrum and Energy Efficiency in coming Traffic Scenarios

Narcis Cardona, Universidad Politecnica de Valencia, Spain

Impact of Realistic Mobility Modelling in the Context of Propagation Modelling on the User and Network Experience

Dennis Rose, Technische Universität Braunschweig, Germany

Statistical Modelling of Antennas Applied to Realistic Use Cases in Wireless Networks

Alain Sibille, Telecom ParisTech, France

Traffic Steering by Self-tuning Controllers in Enterprise LTE Femtocells

Salvador Luna-Ramirez, University of Málaga, Spain

Designing Advanced Energy-efficient Wireless Access Networks by a Capacity based Deployment Tool

Margot Deruyck, Ghent University/iMinds, Belgium

11:00 **Coffee Break - Exhibition and Networking**

11:30 Panel Session 12a: **Towards Virtualised Networks**

Chair: **Diego Lopez, Telefonica I+D, Spain**

Panelists include:

Dr Diego R. Lopez, Head of Technology Exploration Activities, GCTO Unit, Telefonica I+D, Spain

Dr Akihiro Nakao, Head of Nakao Labs, University of Tokyo, Japan

Dr Yaron Wolfsthal, DGM, Systems Research, IBM Haifa Research Lab, Israel

Dr Krishan Sabnani, Senior Vice President, Networking Research, Alcatel-Lucent, USA

Dr Andreas Gladisch, Head of Department, Deutsche Telekom T-Labs, Germany

Dr Jörg-Peter Elbers, Vice President Advanced Technology, ADVA Optical Networking, Germany

13:00 Closing Plenary 13a: **Closing Plenary**

Chair: **Bernard Barani, European Commission, Belgium**

Perspectives for Linking Communication Research and Policy

Ruprecht Niepold, European Commission, Belgium

Horizon 2020, Latest Status and Perspectives for Network Technologies Research and Innovation

Luis Rodriguez-Rosello, European Commission, Belgium

Best Paper and Best Demonstration Award

14:00 **Lunch**



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Exhibition

Future Network & MobileSummit 2013 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 CONNECT	European Commission	Brussels
Net!Works / Networked Society	Eurescom	Germany
5GNOW	CEA	France
6inAction	University of Ljubljana	Slovenia
Cognitive Engine enriched Authorised Shared Access	University of Oulu	Finland
COST	COST Office	Belgium
CREW: Cognitive Radio Experimentation World	iMinds - Ghent University	Belgium
ECONET	infocom SRI	Italy
EAR-IT & SIMPLE	Universidade Nova de Lisboa	Portugal
FIRE / Fed4FIRE	Martel Consulting	Switzerland
Future Cities Project	Universidade do Porto	Portugal
Green-T Project	Instituto Telecomunicações - Aveiro	Portugal
iCore	Create-Net	Italy
IDEALIST	TELEFONICA R&D	Spain
IoT.est	University of Surrey	UK
MEDIEVAL	Instituto Telecomunicações - Aveiro	Portugal
Mobile Cloud Networking	BT	UK
M2M Solutions for Smart Cities and IoT	Fraunhofer Fokus	Germany
ONE	TU Braunschweig	Germany
Portugal Telecom	Portugal Telecom	Portugal
PROSE	Caixa Mágica Software	Portugal
SEMAFOUR	Technische Universität Braunschweig	Germany
Smart Life 2020	Lucerne University of Applied Sciences	Switzerland
Smart Santander	University of Cantabria	Spain
SPITFIRE	CIT	Greece
Unified Management for Converged Networks	University of Athens	Greece
WHERE2 Project	Portugal Telecom	Portugal