Future Network & MobileSummit 2012
Final Programme
Berlin - Germany

04 - 06 July 2012

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Introduction

Future Network & MobileSummit 2012 Conference & Exhibition takes place 04 - 06 July 2012 in the Estrel Berlin, Germany. This is the twenty-first in a series of Annual Conferences supported by the European Commission, which regularly attracts over 500 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 2012 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, Integrated Satellite Communications 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 2012 Conference & Exhibition attracts practitioners and researchers from leading commercial and research organisations around the world. Unlike many research conferences, Future Network & MobileSummit 2012 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 2012 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 Estrel Hotel, Sonnenallee 225, 12057 Berlin.

The Programme

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

The Future Network & MobileSummit 2012 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 2012, 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 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 Berlin. 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 Estrel Hotel (Conference venue).

Conference hotel accommodation should be booked online on the Future Network & MobileSummit 2012 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/2012

Net!Works Reception - 04 July

The Organising Committee is pleased to announce that Net!Works will host a Networking Cocktail Reception on Wednesday 04 July from 18:30 - 20:00 in the Exhibition area. Delegates should indicate participation in this event as part of online registration.

Conference Dinner - 05 July

The Organising Committee is pleased to announce that the Conference Dinner will be held on Thursday 05 July at 20:00.

The dinner venue has a fixed capacity and delegates are requested to confirm their participation no later than 08 June as part of online registration.

Organisers & Conference Secretariat

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

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13 Docklands Innovation Park, 128 East Wall Road, Dublin 3, Ireland
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e-mail: secretariat@FutureNetworkSummit.eu
Plenary Speakers confirmed as at 2 July include:

- **Mario Campolargo**, Net Futures, DG Communications Networks, Content and Technology, European Commission
- **Hossein Moiin**, Chief Technology and Strategy Officer, Nokia Siemens Networks
- **Prof Hans-Joachim Graellert**, Director, Fraunhofer Heinrich-Hertz Institut, Germany
- **Reiner Liebler**, BnetzA, Germany
- **Chris Woolford**, Director of Spectrum and International Policy, OFCOM UK
- **Dr. Peter Meissner**, Operating Officer, NGMN Next Generation Mobile Networks Alliance
- **Ruprecht Niepold**, Adviser Radio Spectrum Policy, DG Information Society and Media, European Commission
- **Dr Lutz Stobbe**, Fraunhofer-Institut für Zuverlässigkeit und Mikrointegration IZM, Germany
- **Mark Daly**, ESB, Ireland
- **Didier Bourse**, Alcatel-Lucent Bell Labs
- **Prof. Klaus David**, University of Kassel, Germany
- **Prof. Paul Müller**, University of Kaiserslautern, Germany
- **Radoslaw Krzywania**, Poznan Supercomputing and Networking Center, Poland
- **Dai Davies**, Dante, UK
- **Rolf Sperber**, Alcatel-Lucent

## Technical Committees

The **Future Network & MobileSummit 2012** Technical Programme Committee includes:

- **Prof. Klaus David**, Kassel University, Germany (TPC Chair 2012)
- **Henrik Abramowicz**, Ericsson, Sweden
- **Dr. Rui Luís Aguilar**, Universidade de Aveiro, Portugal
- **Maurice Bellanger**, CNAM, France
- **Dr. Friebert Berens**, FBConsulting Sarl, Luxembourg
- **Prof. Nicola Bilefari Melazzi**, Università degli Studi di Roma - Tor Vergata, Italy
- **Prof. Raffaele Bolla**, C.N.T. - C.0. DIST University of Genoa, Italy
- **Prof. Sergio Bovelli**, EADS Innovation Works, Germany
- **Marcus Brunner**, NEC Europe Ltd, UK
- **Prof. Wojciech Burakowski**, Institute of Telecommunications, Warsaw University of Technology, Poland
- **Jose Mª Cabero Lopez**, ROBOTIKER-Tecnalia, Spain
- **Prof. Franco Callegati**, University of Bologna, Italy
- **Nicolas Chuberre**, Thales Alenia Space, France
- **Laurent Ciavaglia**, Alcatel-Lucent, France
- **Alberto Conte**, Alcatel Bell-Labs
- **Prof. Luis Correia**, Instituto Superior Tecnico, Portugal
- **Prof. Panagiotsis Demestichas**, University of Piraeus, Greece
- **Prof. Bart Dhondt**, Ghent University - IBBT, Belgium
- **Dr. Ralf Eickhoff**, Dresden University of Technology, Germany
- **Markus Fiedler**, BTH, Sweden
- **Alexandre Gouraud**, France Telecom, France
- **Uwe Herzog**, EURISCOS, Germany
- **Dr. Jacek Izydorczyk**, Institute of Electronics, Silesian University of Technology, Poland
- **Jean-Philippe Javaudin**, France Telecom, France
- **Nigel Jeffries**, UK
- **Prof. Peter Jung**, Universität Duisburg-Essen, Germany
- **Dr. Stefan Kaiser**, DoCoMo Euro-Labs, Germany
- **James Kempf**, Ericsson Research
- **David Kennedy**, Eurescom, Germany
- **Dr. Vinay Kolar**, RWTH Aachen University, Germany
- **Dr. Ibrahim Korpeoglu**, Bilkent University, Turkey
- **Dr. Sławomir Kuklinski**, Warsaw University of Technology, Poland
- **Konstantinos P Liolis**, SPACE HELLAS S.A., Greece
- **Dr. Roberto Llorente**, UPV, Spain
- **Prof. Marco Luise**, University of Pisa, Italy
- **Dr. Paulo Marques**, Instituto de Telecomunicación, Portugal
- **Dr. Klaus Moessner**, CCSR, University of Surrey, UK
- **Dr. Werner Mohr**, Nokia Siemens Networks, Germany
- **Prof. Paul Müller**, University of Kaiserslautern, Germany
- **Prof. Luis Muñoz**, University of Cantabria, Spain
- **Pirabakaran Navaratnam**, University of Surrey, United Kingdom
- **Jean-Charles Point**, JCP-Consult, France
- **Miguel Ponce de Leon**, Waterford Institute of Technology (TSSG), Ireland
- **Prof. George Polyzos**, Athens University of Economics and Business, Greece
- **Dr Mikhal Popov**, Accent AB, Sweden
- **Ronald Raulfes**, DLR, Germany
- **Dr Oriol Sallent**, Universitat Politècnica de Catalunya, Spain
- **Reijo Savola**, VTT, Finland
- **Hans Schotten**, University of Kaiserslautern, Germany
- **Pablo Serrano**, Un. Carlos III de Madrid, Spain
- **Prof. Vasilios Siris**, FORTH/ICS, Greece
- **Rute Sofia**, University Lusofona, Portugal
- **Daniele Tarchi**, Italy
- **Dr Ilenia Tiniriello**, CNIT, Italy
- **Prof. Ralf Tönjes**, University of Applied Sciences Osnabrück, Germany
- **Dr Anna Tzanakaki**, AIK, Greece
- **Bogdan Uscumlic**, Institute Mihailo Pupin, Serbia
- **Dr Hans van den Berg**, TNO ICT, Netherlands
- **Alessandro Vanelli-Coralli**, University of Bologna, Italy
- **Dr Fiona Williams**, Ericsson, Germany
- **Dr Lena Wosinska**, KTH, Sweden
- **Prof Sven Zeissberg**, University of Applied Sciences, Germany
Wednesday, July 4, 2012

8:00:00 Registration

09:00 Opening Plenary 1a
Chair: Luis Rodrigues-Rosello, European Commission, Belgium
Welcome - Prof Klaus David, University of Kassel, Germany (TPC Chair)
Mario Campolargo, Director, Net Futures, DG Communications Networks, Content and Technology, European Commission
Hossein Moin, Chief Technology and Strategy Officer, Nokia Siemens Networks
Prof Hans-Joachim Graßlert, Director, Fraunhofer Heinrich-Hertz Institut

11:30 Session 2a: Next-generation Radio System Architectures and Protocols
Chair: Roberto Llorente, Universidad Politecnica de Valencia, Spain
Colony-RAN Architecture for Future Cellular Network
Shinobu Nanba, KDDI R&D Laboratories, Japan
On designing next generation MAC for cellular networks using the FLAVIA paradigm
Vincenzo Mancuso, Institute IMDEA Networks, Spain
Joint User Scheduling, Power Control and Beam-forming for Multi-Cell Distributed Antenna Systems with Imperfect CSI
Ramiro Samano, Institute of Telecommunications, Portugal
Wireless Card Virtualization: From Virtual NICs to Virtual MAC Machines
Pierlugi Gallo, Università di Palermo, Italy
Decentralized phase synchronization scheme for Distributed Beamforming in WSN with Quantized Phase Feedback
Lazar Berbakov, Centro Tecnologico de Telecomunicaciones de Catalunya (CTTC), Spain

11:30 Workshop 2b: Cognitive Radios/Cognitive Networks
Chair: Jorge Pereira, European Commission, Belgium
CONSERN: Empowering Network Agility with Self-growing Capabilities - From Concept to Validation
Nancy Alonistioti, University of Athens, Greece
Giuseppe Bianchi, CNIT - University of Roma Tor Vergata, Italy
CREW: Shape-Shifting Wireless Networks: The Role of TV Spectrum in Future Network Architectures
Jignesh Vakani, Trinity College Dublin, Ireland
How to Access and Use the CREW Open Federated Test Platform for Wireless Experimentation of Advanced Cognitive Radio / Cognitive Networking Solutions
Ingrid Moerman, IBBT - Ghent University, Belgium
Panel Discussion on Cognitive Radio/Cognitive Networks and the role of Experimentation

11:30 Session 2d:

13:15 Lunch

14:15 Workshop 3a: IC1004 Cooperative Radio Communications I
Chair: Narcís Cardona, Universidad Politecnica de Valencia, Spain
Keynote - Cooperation: A Key Feature of Oncoming Cellular Systems
Halim Yanikomeroglu, Carleton University, Canada
Measurement-based Stochastic Modeling for Co-existing Propagation Channels in Cooperative Relay Scenarios
Jinyi Liang, Tongji University, China
Cooperative Radio Communications over Correlated Shadowing: Outage Analysis
Athanasios D. Panagopoulos, National Technical University of Athens, Greece
A Wireless Transceiver Power Consumption Model and Two-hop vs. Single-hop Energy Efficiency Ratio
Goran Dimic, Institute Mihajlo Pupin, Univ. of Belgrade, Serbia
Dynamic Management of Cooperative Communication in Body Area Networks
Raffaele D'Errico, CEA-Leti, Minatec Campus, France
14:15 Session 3b: LTE Advanced Systems: PHY Layer Issues
Chair: Werner Mohr, Nokia Siemens Networks GmbH & Co. KG, Germany
Advanced Relaying Concepts for Future Wireless Networks
Agisilaos Papadogianni, Chalmers University of Technology, Sweden
Data Aggregation Schemes for Machine-to-Machine Gateways: Interplay with MAC Protocols
Carlles Anton-Haro, CTTIC, Spain
Interference Avoidance Techniques for Improving Ubiquitous User Experience
Nicolas Gresset, Mitsubishi Electric R&D Centre Europe, France
Interference Control in LTE-Advanced: An ARTIST4G Overview
Michael Grieger, TU Dresden, Germany
Experiments on Downlink 4-by-2 MU-MIMO with Quantized CSI Feedback for LTE-Advanced Deployment Scenarios
Yuichi Kakishima, NTT DOCOMO, INC., Japan

14:15 Session 3c: Optical Access Networks
Chair: Jean-Charles Point, JCP-Consult, France
First Experimental Demonstrations of Real-time Optical OFDMA PONs with Adaptive Dynamic Bandwidth Allocation and Colorless ONU
Jiaming Tang, Bangor University, United Kingdom
Power Consumption Measurements of Access Networks in a Wide Geographical Area Test Bed and Economic Perspectives
Alessandro Valenti, Fondazione Ugo Bordoni, Italy
Optical Wireless Communication - Jump on a new experience
Frank Deicke, Fraunhofer IPMS, Germany
Adding Mobile Base Station Support to PONs
Alexandros Stavdas, University of Peloponnese, Greece
Impairment Compensation in Long-reach Integrated Optical-Wireless PON
Roberto Llorente, Universidad Politècnica de Valencia, Spain

Chair: Thomas Edwall, Ericsson AB, Sweden
Opening
Benoit Tremblay, Ericsson AB, Sweden
Libnetvirt: The Network Virtualization Library
Daniel Turull, KTH Royal Institute of Technology, Sweden
Performance of Virtualized Routers: Isolation Properties on Different Time Scales
Markus Fiedler, Blekinge Institute of Technology (BTH), Sweden
Planning Optimized Virtual Infrastructures over Converged Optical Network and IT Physical Infrastructures
Anna Tzanakaki, AIT, Greece

14:15 Workshop 3e: Green Communications and Networks I
Chair: Stefano Buzzi, CNIT / University of Cassino, Italy
Network evolution steps towards power efficiency
Juan Pedro Fernandez-Palacios, TELEFONICA R&D, Spain
Power Consumption in Future Ultra Broadband Networks
Alessandro Valenti, Fondazione Ugo Bordoni, Italy
ECONET Green Abstraction Layer: A Common Interface Proposal for Controlling the Power Management Capabilities of Networking Devices
Leonardo Fialho, Dublin City University, Ireland
A Smart Proxy Architecture for Power Consumption Reduction in the Home Environment
Roberto Bruschi, CNIT, Italy
How to deploy and operate mobile networks in an energy efficient manner?
István Góbor, Ericsson, Hungary

14:15 Poster Session 3e: RAS Poster Session
Chair: Jorge Carvalho, European Commission, Belgium
System Architecture for LTE-based Coverage Solution using UE Relays
Ravikumar Pragada, InterDigital Communications, United States
Future Networks to Enable Wireless Broadband Technologies and Services for the Next Billion Users
Fisseea Mekuria, CSIR Meraka Institute, South Africa
Network Coded Assisted Data Collection over RPL-based Wireless Sensor Networks
Monica Navarro, CTTIC, Spain

16:00 Coffee Break

14:15 Session 3d: Cloud Networking – Technical and Business Challenges II
Chair: Thomas Edwall, Ericsson AB, Sweden
Business aspects of Cloud Networking
João Soares, PT Inovação, SA, Portugal
Cloud Computing - Challenges and Risks
Burkhard Stiller, University of Zurich, Switzerland
Panel Discussion including
Thomas Edwall, Ericsson, Sweden (SAIL Project)
Pascale Vicat-Blanc, Lyatiss, France (GEYSERS Project)
Markus Fiedler, Blekinge Institute of Technology, Sweden (EURO-NF Project)
Azimeh Sefidcon, Ericsson, Sweden (SAIL Project)

16:45 Session 4a: Green Communications and Networks II
Chair: Stefano Buzzi, CNIT / University of Cassino, Italy
“Greening” Mobile Communication via Mitigation of Traffic Growth
Adam Wolisz, Technische Universität Berlin, Germany
Energy efficiency of vertical handovers under different traffic profiles
Jacek Kibilda, Wrocławskie Centrum Badan EIT, Poland
Energy efficient wireless radio networks: The Greenet approach
Angelos Antonopoulos, CTTIC, Spain
Energy Savings with new BS Hardware Solutions
Dieter Ferling, Alcatel-Lucent Deutschland AG, Germany
Holistic energy consumption evaluation of wireless networks using efficient components and systems
Björn Debaillie, imec, Belgium

14:15 Poster Session 4e: Poster Session 3
Chair: Rudiger Martin, European Commission, Belgium
Context-Awareness and Self-Localization in Wireless Networks: The WHERE2 Proposals
Ronald Raultef, CEA, France
Mobility control in cognitive radio system
Janos Bito, Budapest University of Technology and Economics, Hungary
A Statistical Moment Deviation Approach to Identify Outliers in Collaborative Spectrum Sensing for Cognitive Radio
Klaus Moessner, University of Surrey, United Kingdom
Thursday, July 5, 2012

11:30 Session 6a: Enabling technologies for flexible spectrum usage
Chair: Ralf Tönjes, Uni. Appl. Sci. Osnabrück, Germany
- Environment aware spectrum shaping for cognitive radio systems
  Pawel Kryszkiewicz, Poznan University of Technology, Poland
- Towards spectrum micro-trading
  Pål Grensund, Telenor, Norway
- Low ACLR communication systems for TVWS operation
  Rohit Datta, TU Dresden, Germany
- Testbed for coexistence evaluation in TV White Spaces
  Juergen Lauterjung, Rohde & Schwarz, Germany
- Cross-platform Demonstrator Combining Spectrum Sensing and a Geo-location Database
  Paulo Marques, Instituto de Telecomunicações, Portugal

11:30 Session 6b: Integrated Satellite Communications
Chair: Sandro Scallise, DLR, Germany
- SatCom Research Trends
  Sandro Scallise, German Aerospace Center, Germany
- Optical GEO Feeder Link Design
  Nicolas Perlot, Deutsches Zentrum für Luft- und Raumfahrt, Germany
- Using Cognitive Radio Interference Mitigation Technique to Enhance Coexistence and Sharing Between DVB-T and LTE System
  Sara Sangtarash, Victoria University, Australia
- MONET - From Optimised Mechanisms Definition to Lab and Real Field Tests of an Hybrid Satellite / Ad-hoc Network
  Michael Crosnier, Astrium, France
- Broadband Access via Integrated Terrestrial & Satellite Systems
  Graham Peters, Avanti Communications, United Kingdom

11:30 Session 6c: Optical Network Control
Chair: Anna Tzanakaki, AIT, Greece
- Benefits of Optical Packet Switching for Router By-pass in Metro Networks
  Oscar Gonzalez de Dios, Telefonica I+D, Spain
- A Cognitive Decision System for Heterogeneous Reconfigurable Optical Networks
  Ignacio de Miguel, University of Valladolid, Spain
- Control and Transport of Time Shared Optical Networks (TSON) in Metro Areas
  Bijan Rahimzadeh Rofee, University of Essex, United Kingdom
- A Network Control Plane architecture for on-demand co-provisioning of optical network and IT services
  Nicola Ciulli, Nextworks, Italy

11:30 Session 6d: Self Management
Chairs: Panagiotis Demestichas, University of Piraeus Research Center, Greece
- Network Management without Payload Inspection: Application Classification via Statistical Analysis of Bulk Flow Data
  Baris Kurt, Bogazici University, Turkey
- On Accomplishing Context Awareness for Autonomic Network Management
  Beatriz Fuentes, TID, Spain
- Formal Verification of the Cooperative Behaviour of Network Nodes for Routing and Context Dissemination
  Stylianos Georgoulas, University of Surrey, United Kingdom
- Designing the core components of an operator-driven framework for unifying autonomic network and service management
  Kostas Tsagkaris, University of Piraeus Research Center (UPRC), Greece
- On the role of learning in autonomic network management: the UniverSelf project approach
  Panagiotis Spapis, National And Kapodistrian University of Athens, Greece

11:30 Session 6e: Future Internet Experimental Facilities
Chairs: Klaus David, University of Kassel, Germany
- Benchmarking the Encoding Efficiency of H.265/HEVC and H.264/AVC
  Harilaos Koumaras, NCSR Demokritos, Greece
- A Five Year Perspective of Traffic Pattern Evolution in a Residential Broadband Access Network
  Martin Du, Acero AB, Sweden
- An OpenFlow-based Testbed for Information Centric Networking
  Stefano Salsano, Univ. of Rome “Tor Vergata”, Italy
- AAA-based Infrastructure for Industrial Wireless Sensor Networks
  Markus Wehner, University of Applied Sciences Dresden, Germany

12:15 Lunch

16:15 Coffee Break

16:45 Session 8a: Cognitive and Reconfigurable Radio Systems I
Chair: Reijo Savola, VTT Technical Research Centre of Finland
- A Spectrum Selection Framework for Opportunistic Networks
  Jordi Perez-Romero, Universitat Politècnica de Catalunya (UPC), Spain
- Resource Management of Centrally Controlled Cognitive Radio Networks
  Genevieve Manga, Alcatel Lucent Bell Labs, Germany
- Spectrum aware routing in ad-hoc cognitive radio networks
  Athina Bourdena, University of the Aegean, Greece
- Probabilities for opportunistic networking in different scenarios
  Jens Gebert, Alcatel-Lucent Deutschland, Bell Labs, Germany
- Multi-Antenna Cyclostationarity Feature Detection for Parallel Sensing in Cognitive Radio
  David Depierre, Thales Communications and Security, France

16:45 Session 8b: Content Distribution
Chair: Nigel Jefferies, HUA Wei, United Kingdom
- Publish/Subscribe over Information Centric Networks: a Standardized Approach in CONVERGENCE
  Nicola Blefari Melazzi, University of Rome Tor Vergata, Italy
- Architecture for Adaptable QoE-Centric Mobile Video Delivery
  Michelle Wetterwald, EURECOM, France
- SVC Multicast Video Mobility Support in MEDIEVAL Project
  Rui Aguiar, Instituto de Telecomunicações, Portugal
Realistic Media Streaming over BitTorrent
George Xylomenos, Athens University of Economics and Business, Greece

16:45 Workshop 8c: FINSEN
Chair: Fiona Williams, Ericsson GmbH, Germany
Future Internet Requirements for Microgrid Development
Juergen Goetz, Siemens AG, Germany
Smart Building Energy Management: A “Future Internet” Perspective
Gilles Privat, Orange Labs, France
Electric Mobility - Driving Change in the Smart Grid
Mark Daly, ESB, Ireland

16:45 Session 8d: Scalable Architectures for the Real World Internet
Chair: Markus Fiedler, Blekinge Institute of Technology (BTH), Sweden
A Test-driven Approach for Life Cycle Management of Internet of Things enabled Services
Experience on the demonstration of the ETSI M2M architecture Release 1
Claudio Cicconetti, Intecs SpA, Italy
An overview of project COMPOUND: Cooperative Communications and Positioning in Mobile Underwater Networks
Joao Gomes, ISR - Instituto Superior Tecnico, Portugal
Concept for a M2M Communications Infrastructure via Airliners
Simon Plass, DLR, Germany
Power control and management in the NetFPGA Gigabit Router
Diego Reforgiato, University of Catania, Italy

16:45 Session 8e: Network Overlay, Virtualization and Federation
Chair: Bernard Barani, European Commission, Belgium
From Softrouter to Current SDNs
Michael Scharf, Alcatel-Lucent, Germany
Cloud Networking: An Infrastructure Service Architecture for the Wide Area
Paul Murray, HP, United Kingdom
Virtual Infrastructure Planning: The GEYSERS Approach
Anna Tzanakaki, AIT, Greece
A modular, flexible and virtualizable framework for IEEE 802.11
Pierpaolo Loretì, University of Rome Tor Vergata, Italy
An experimental investigation of indoor localization by unsupervised Wi-Fi signal clustering
Yajian Xu, University of Kassel, Germany

18:30 End of Parallel Sessions
10:45 Coffee Break

11:15 Session 10a: Novel radio network technologies, including energy-efficiency
Chair: Didier Bourse, Alcatel-Lucent, France
A Tight Closed-Form Approximation of the SISO Energy Efficiency-Spectral Efficiency Trade-Off
Fabien Heurtevent, Université Libre de Bruxelles, Belgium
Analysis of energy saving using cooperation Use-case: WiFi and WiMedia
Ayman Radwan, Instituto de Telecomunicaciones, Portugal
Energy efficient cooperative data relaying in Future Networks
Jacek Kibidlo, Wroclaw University of Science and Technology, Poland
Integration Strategy of EARTH Energy Efficiency Enablers
Magnus Olsson, Ericsson AB, Sweden

11:15 Workshop 10b: Network Federation II
Chair: Klaus Moessner, University of Surrey, United Kingdom
UniverSelf: Bringing UMF to Reality: a Network and Service Governance Use Case
Beatriz Fuentes, TID, Spain
OneFIT: Algorithms for Opportunistic Network Management and Infrastructure Coordination
Jordi Perez-Romero, Universitat Politècnica de Catalunya, Spain
ONE: Prototyping the ONE: Architecture and Implementation
Mohit Charnalia, TU Braunschweig, Germany
GEYSERS: The LICL: a prototype for the composition of Logical Infrastructures
Joan A. Garcia-Espin, i2CAT, Spain
Wrap up Panel – Standardising Challenges for Future Networks

11:15 Workshop 10c: Machine to Machine Communications: Maintaining User Capacity and Pursuing Energy Efficiency in the Internet of Things II
Chair: Angeliki Alexiou, University of Piraeus, Greece
From Open IMS and OpenEPC to OpenMTC: An Extensible Control Platform for the Efficient Enablement of M2M Applications in the Future Internet and Emerging Smart Cities
Thomas Magedanz, Fraunhofer FOKUS, Germany
Network Assisted D2D Communications: Challenges and Solution Approaches
Gabor Fodor, Ericsson Research, Sweden
M2M Communications - Technology Trends and Research Challenges
Angeliki Alexiou, University of Piraeus, Greece

11:15 Workshop 10d: Future Network Stability: Threats and Challenges II
Chair: Antonio Manzalini, Telecom Italia, Italy
Stability in Dynamic Networks
Stuart Clayman, University College London, United Kingdom
Distributed control loops: towards a cooperative autonomic management framework for the Future Internet
Steven Latre, Ghent University - iBBT, Belgium
Network Stability based on Distributed Constraints Systems
Septimiu Nechifor, Siemens Program and System Engineering SRL, Romania

11:15 Workshop 10e: Fostering Programmability of Wireless Networks II
Chair: Xavier Perez Costa, NEC, Germany
ECONET - Network programmability for green networking
Roberto Bruschi, CNIT, Italy
Operator Business View on Wireless Network Programmability Solutions
Yan Grunenberger, Telefonica Research, Spain
Operator Business View on Wireless Network Programmability Solutions
Hans Joachim Einsiedler, Deutsche Telekom Laboratories, Germany
Wireless Processor - Technology Overview and Demonstration
Ilene Tinnirello, University of Palermo, Italy

13:00 Lunch

14:00 Plenary Session 11a: Plenary IV
Chair: Jacques Magen, InterInnov, France
Introduction
Jacques Magen, InterInnov, France
G-Lab: A Software Defined Networking Perspective
Paul Mueller, University Kaiserslautern, Germany
PL-LAB: Polish Distributed Laboratory for Testing Future Internet Solutions
Radoslaw Krzywania, Poznan Supercomputing and Networking Center - IBCh PAS, Poland
Bandwidth on Demand- The next Internet Innovation
Dai Davies, Dante, United Kingdom
Federation of Data sets for Multinational Research Projects
Rolf Sperber, Alcatel-Lucent, Germany

16:00 Closing Plenary 12: Closing Plenary
Chair: Andrew Houghton, European Commission, Belgium

16:30 End of Conference

Programme as at 2 July 2012. Please check online Programme for most up to date information
Registration Information

It is necessary for all Future Network & MobileSummit 2012 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 Delegate Fee €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

Terms & Conditions

1. All authors who are presenting a paper at Future Network & MobileSummit 2012 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.


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 2012", your name, organisation and invoice number (if relevant).

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 03 June from 14:30 to 17:00 and will remain open during normal conference hours from 08:00 on Wednesday.
Exhibition

**Future Network & MobileSummit 2012** 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

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<th>Stand Name</th>
<th>Organisation</th>
<th>Country</th>
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<tr>
<td>DG Information Society and Media</td>
<td>European Commission</td>
<td>Brussels</td>
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<tr>
<td>NetWorks</td>
<td>Ericsson</td>
<td>Germany</td>
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<tr>
<td>Advanced Radio Interface Technologies for 4G Systems (ARTIST4G)</td>
<td>TU Dresden</td>
<td>Germany</td>
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<tr>
<td>COGEU: Exploiting TV white spaces in Europe</td>
<td>IRT GmbH</td>
<td>Germany</td>
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<tr>
<td>CONSERN FP7 Project: COoperative aNd Self growing Energy awaRe Networks</td>
<td>University of Athens</td>
<td>Greece</td>
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<tr>
<td>Cognitive Radio Experimentation World</td>
<td>Technical University Berlin</td>
<td>Germany</td>
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<td>CROWN</td>
<td>Eurecom</td>
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<tr>
<td>EARTH: Energy Aware Radio and neTwork tecnologies</td>
<td>Bell Labs, Alcatel-Lucent</td>
<td>Germany</td>
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<td>EXALTED</td>
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<td>Fraunhofer HHI</td>
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<td>Germany</td>
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<td>Geysers</td>
<td>Lyatiss</td>
<td>France</td>
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<tr>
<td>iCore</td>
<td>University of Piraeus</td>
<td>Greece</td>
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<tr>
<td>IPNQSIS (IP Network Monitoring for QoS Intelligent Support)</td>
<td>VTT</td>
<td>Finland</td>
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<tr>
<td>OneFIT</td>
<td>University of Piraeus</td>
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<td>QoSMOS FP7 Project</td>
<td>BT</td>
<td>UK</td>
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<tr>
<td>Rohde &amp; Schwarz</td>
<td>Rohde &amp; Schwarz</td>
<td>Germany</td>
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<td>SAMURAI and LOLA</td>
<td>Agilent Technologies</td>
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<td>SAIL - Cloud Networking</td>
<td>Ericsson AB</td>
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<tr>
<td>SAPHYRE – Sharing Physical Resources in Wireless Networks</td>
<td>TU Dresden</td>
<td>Germany</td>
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<td>STRONGEST</td>
<td>Telecom Italia</td>
<td>Italy</td>
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<tr>
<td>UNIVERSELF UMF DEMO</td>
<td>University of Piraeus</td>
<td>Greece</td>
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<tr>
<td>WHERE 2</td>
<td>DLR e.V.</td>
<td>Germany</td>
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