

ICT-MobileSummit 2008

Advance Programme

Stockholm *Sweden*

10 - 12 June 2008

Supported by

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Information Society and Media

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Introduction

ICT-MobileSummit 2008 Conference & Exhibition takes place 10 - 12 June 2008 in Stockholm, Sweden. This is the seventeenth 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.

In the context of convergence, the 17th ICT Mobile and Wireless Communications Summit (**ICT-MobileSummit**) will address the challenges of Future Ubiquitous Networks based on mobile and wireless communications, complemented with fixed infrastructures. The impact of such Future Networks on the underlying Internet infrastructure will in particular be emphasised. Services and applications for billions of users involving trillions of interconnected potentially mobile devices will be addressed at the event. The Plenary on the third day of the **ICT-MobileSummit 2008** will focus on the Future Internet.

Supported by the European Commission and eMobility, the **ICT-MobileSummit** focuses on Fixed, Mobile, Content Convergence; 4G and Beyond; Future Internet; Sensor Networks; Wireless and Fixed Broadband; Short Range Wireless Systems, Piconets; Ubiquitous Content; Application and Service Enablers; Components for Wireless Systems; Pervasive and Trusted Networks; and Research Strategies and Challenges.

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

Who will you meet?

ICT-MobileSummit 2008 Conference & Exhibition attracts practitioners and researchers from leading commercial and research organisations around the world. Unlike many research conferences, **ICT-MobileSummit 2008** provides an opportunity to meet with senior managers, practitioners, project managers, software engineers and researchers. Delegates and speakers attend to share knowledge, experience and lessons learnt, and network with their peers from around the world.

ICT-MobileSummit 2008 Conference & Exhibition also provides the unique opportunity to identify partners and opportunities to co-operate in international research projects co-funded by the European Commission under Framework Programme 7 (FP7) and in particular, the FP7-ICT Theme.

The Venue

ICT-MobileSummit 2008 Conference & Exhibition takes place in the Folkets Hus of the Stockholm City Conference Centre, Barnhusgatan (off Vasagatan).

The Programme

The 3-day programme features an invigorating mix of case studies and technical papers. As well as four plenary sessions, delegates may participate in 32 thematically focused parallel sessions featuring different aspects of Fixed, Mobile, Content Convergence; 4G and Beyond; Future Internet; Sensor Networks; Wireless and Fixed Broadband; Short Range Wireless Systems, Piconets; Ubiquitous

Content; Application and Service Enablers; Components for Wireless Systems; Pervasive and Trusted Networks; and Research Strategies and Challenges.

The Conference Programme is complemented by a demonstration and technology exploitation focused Exhibition, a Welcome Networking Reception which will take place on Monday 09 June 2008 and a Conference Dinner on Tuesday 10 June 2008.

The Conference Programme is subject to change and the **ICT-MobileSummit 2008** Organising Committee reserves the right to alter the contents, venue and/or speakers.

Networking

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

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

Cyber Café

ICT-MobileSummit 2008 delegates may avail of the Internet and printing facilities provided by the **ICT-MobileSummit** Cyber Café, which is located in the Exhibition area. Make last minute changes to your conference presentation, follow up immediately on business, research and cooperation opportunities identified through networking at the conference, and keep in touch with the office, family and friends.

Conference Proceedings

The **ICT-MobileSummit 2008** Conference Proceedings will be published on CD-ROM and the Conference Portal. Each delegate will receive a free copy of the conference proceedings at Registration.

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

Security, Health and Safety

Please wear your name badge for all activities during **ICT-MobileSummit 2008**, 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 Stockholm. Any special needs or requirements should be notified to the Conference Secretariat as far in advance of the event as possible.

Hotel Accommodation

Hotel Accommodation in Stockholm is both expensive and limited during June.

Conference rates have been negotiated for delegates and accompanying persons with six hotels in Stockholm: Comfort Hotel, Malmen Hotel, Sjöfartshotellet, Sergel Plaza, Park Hotel and Continental Hotel. More information on the Conference hotels is published on the portal.

Conference hotel accommodation should be booked online on the **ICT-MobileSummit 2008** Conference portal as part of conference registration.

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

www.ICT-MobileSummit.eu

Networking Reception - 09 June

The Organising Committee is pleased to announce that the City of Stockholm will host a Welcome Networking Cocktail Reception on Monday 09 June from 18:00 - 20:00. The Reception will be held in the Golden Room of Stadhuset (City Hall).

To participate in this Networking Reception, all delegates must register for this event as part of online registration **no later than 23 May** to be included in the security list for entrance to the City Hall.

Each confirmed delegate will receive an invitation card in their Conference Pack, which can be collected at the Conference Venue from 14:00 - 17:00 on Monday 09 June.

Delegates should arrive at the City Hall between 17:15 - 17:45 to clear security. Following a formal Welcome by the City, delegates will have the opportunity to participate in a tour of the City Hall.

Conference Dinner - 10 June

The Organising Committee is pleased to announce that the Conference Dinner will be held on Tuesday 10 June at 19:00 in the Solliden Restaurant at Skansen Open-Air Museum, Djurgården.

Delegates can take the opportunity to visit Skansen from 17:00 and experience this unique Open-Air Museum, showcasing historic Sweden in miniature and typical Scandinavian animals prior to the dinner.

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

Pre-Conference Workshop

A pre-conference workshop will take place on Monday 09 June at the **ICT-MobileSummit 2008** Venue: Folkets Hus, Stockholm City Conference Centre.

This workshop, entitled "Wireless Sensor and Actuator Network Research on Opposite Sides of the Globe - Europe/SENSEI and Australia/ISSNIP", is being organised by the SENSEI project. The Final Workshop Programme will be available in April.

Delegates can confirm participation in this pre-conference event as part of online registration. All participants will pay a contribution of €50 towards the cost of two coffee breaks, lunch and name badge.

More information is available at

www.ICT-MobileSummit.eu

Plenary Session Speakers



Joao da Silva
European Commission

Keynote Speakers confirmed to date include:

- **Dr Joao Schwarz da Silva, Director, Converged Networks and Services, DG Information Society and Media, European Commission**
- **Senior Representative, Ericsson**

Technical Programme Committee

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

The **ICT-MobileSummit 2008** International Programme Committee includes

- **Paul Cunningham**, IIMC, Ireland (Conference Chair)
- **Dr Rui Aguiar**, Universidade de Aveiro, Portugal
- **Carles Anton-Haro**, CTTC, Spain
- **Prof. Albert Banchs**, Universidad Carlos III de Madrid, Spain
- **Maurice Bellanger**, CNAM, France
- **Dr Friedbert Berens**, STMicroelectronics, Switzerland
- **Prof. Nicola Blefari Melazzi**, Università degli Studi di Roma - Tor Vergata, Italy
- **Didier Bourse**, Motorola, France
- **Veselin Brankovic**, TES Electronic Solutions GmbH, Germany
- **Christophe Cordier**, France Telecom, France
- **Prof. Luis Correia**, Instituto Superior Technico, Portugal
- **Miriam Cunningham**, IIMC Ltd, Ireland
- **Prof. Klaus David**, Kassel University, Germany
- **Prof. Andrzej Duda**, Grenoble INP - ENSIMAG, LIG Lab, France
- **Ralf Eickhoff**, Dresden University of Technology, Germany
- **Prof. Gerhard P. Fettweis**, TU Dresden, Germany
- **Prof. Javier Rodriguez Fonollosa**, Technical University of Catalonia (UPC), Spain
- **Dr Elena Gaura**, Coventry University, UK
- **Joseph Gorman**, SINTEF, Norway
- **Laurent Hérault**, CEA-Leti, France
- **Prof. José María Hernando**, Universidad Politécnica de Madrid, Spain
- **Uwe Herzog**, Eurescom, Germany
- **Dr Bruno Jacobfeuerborn**, Polska Telefonia Cyfrowa, Poland
- **Nigel Jefferies**, Vodafone, UK
- **Stefan Kaiser**, DoCoMo Euro-Labs, Germany
- **David Kennedy**, Eurescom, Germany
- **Mika Klemettinen**, NOKIA, Finland
- **Klaus-Michael Koch**, Technikon Forschungs- und Planungsgesellschaft mbH, Austria
- **Georgios Kormentzas**, University of the Aegean, Greece
- **Prof. Tatiana Kovacikova**, University of Zilina, Slovakia
- **Prof. Marco Luise**, University of Pisa, Italy
- **Prof. Thomas Magedanz**, FOKUS, Germany
- **Dr David Malone**, National University of Ireland, Maynooth, Ireland

- **Sylvie Mayrargue**, CEA, France
- **Prof. Ingrid Moerman**, IBBT-Ghent University, Belgium
- **Werner Mohr**, Nokia Siemens Networks, Germany
- **Telma Mota**, Portugal Telecom Inovação S.A., Portugal
- **Luis Munoz**, University of Cantabria, Spain
- **Mícheál O'Foghlú**, TSSG, WIT, Ireland
- **Riccardo Pascotto**, T-Systems, Germany
- **Miguel Ponce de Leon**, TSSG, WIT, Ireland
- **Dr Marcelo Pias**, University of Cambridge, UK
- **Jean-Charles Point**, JCP-Consult, France
- **Dr Mikhail Popov**, Acreo AB, Sweden
- **Martin Potts**, Martel Consulting, Switzerland
- **Oriol Sallent**, Universitat Politècnica de Catalunya, Spain
- **Reijo Savola**, VTT, Finland
- **Prof. Vasilios Siris**, FORTH-ICS/University of Crete, Greece
- **Prof. Rahm Tafazolli**, University of Surrey, UK
- **Terje Tjelta**, Telenor, Norway
- **Peter Vetter**, Alcatel-Lucent Bell Labs, Belgium
- **Josep Vidal**, UPC, Spain
- **Prof. Konstantinos Voudouris**, Technological Educational Institution (TEI) of Athens, Greece
- **Dr Fiona Williams**, Ericsson, Germany
- **Prof. Djamal Zeghlache**, Institut National des Telecommunications France
- **Prof. Sven Zeisberg**, University of Applied Sciences, Germany

Organising Committee

- **Miriam Cunningham**, IIMC, Ireland
- **Paul Cunningham**, IIMC, Ireland



Conference Secretariat

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Conference Portal & Delegate Showcase

www.ICT-MobileSummit.eu



Tuesday, June 10, 2008

08:00

Registration

09:00

Opening Plenary 1a: Keynote Presentations

Welcome

Paul Cunningham, IIMC Ltd & Fiona Williams, eMobility

Keynote Presentation

Dr Joao Schwarz da Silva, Director, Converged Networks and Services, DG Information Society and Media, European Commission

The Ericsson View on Future Networks

Presenter to be confirmed, Ericsson

An Operator/Regulator View

Organisation to be confirmed

10:30 Coffee Break

Exhibition & Networking

11:00 Session 2a

4G and Beyond: System Architecture Aspects

Chair: [Didier Bourse, Motorola, France](#)**An Architectural Analysis and Evaluation of a JSCC/D System on 4G Networks**

Gianmarco Panza, CEFRIEL, Italy

An Autonomic Protocol Graph Management Architecture for Reconfigurable Systems

Cheng Chi, Beijing University of Posts and Telecommunications, China

Autonomic Joint Session Admission Control using Reinforcement Learning

Zhiyong Feng, Beijing University of Posts and Telecommunications, China

A Primary Spectrum Management Solution Facilitating Secondary Usage Exploitation

Jordi Perez-Romero, Universitat Politècnica de Catalunya, Spain

Handovers for Ubiquitous Connectivity in Next Generation Wireless Systems

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

11:00 Session 2b

Co-Existing Short Range Devices

Chair: [Friedbert Berens, STMicroelectronics, Switzerland](#)**Study and Assessment of Cooperative Techniques for MB-OFDM UWB**

Juan Choliz, University of Zaragoza, Spain

Balancing the Interference Probability between Systems for Sharing Frequency Spectrum

Taekjin Hwang, ETRI, Republic of Korea

UWB Picocell Clusters: Real-time Interference Monitoring

Roberto Llorente, Universidad Politécnica de Valencia, Spain

UWB Body Area Networks: Co-Existence Analysis and Performance Optimization

Daniele Domenicali, University of Rome "La Sapienza", Italy

Mitigation Parameters of UWB Coexistence With WiMax Client Terminal

Abdur Rahim, Technical University Dresden, Germany

11:00 Session 2c

WiMAX

Chair: [Konstantinos Voudouris, Technological Educational Institution \(TEI\) of Athens, Greece](#)**MIMO Techniques for WiMAX Systems in Challenging Radio Channel Conditions**

Ilkka Harjula, VTT, Finland

On the Performance of Algebraic STBCs in WiMax Systems

Fabien Héliot, University of Surrey, United Kingdom

Hardware Link Level Emulator for System Level Simulations of WiMAX-like Systems

Roman Maslennikov, Intel Corp., Russia

Link Performance Model for Multihop WiMax OFDMA Systems

Reza Hoshyar, University of Surrey, United Kingdom

11:00 Session 2d [Beyond IMS - Architectures and Business Models](#)Chair: [Christophe Cordier, France Telecom, France](#)**Service Platform B3G – SPICE**

Seidl Robert, Nokia Siemens Networks, Germany

WIMS 2.0: Converging IMS and Web 2.0

David Lozano, Telefónica Research and Development, Spain

Ubiquitous Sensor Networks in IMS: an Ambient Intelligence Telco Platform

Jesus Bernat Vercher, Telefonica Investigación y Desarrollo, Spain

Beyond the Connected Car: Using the Portable IMS Gateway as an In-car Interface to Home Services

Johan Hjelm, Nippon Ericsson KK, Japan

Techno-Business Assessment of Services and Service Platforms: Quantitative, Scenario-based Analysis

Josip Zoric, Telenor R&I, Norway

11:00 Poster Session 2e

[Wireless and Fixed Broadband](#)

Chair:

Rate Adaptation for Multi-Rate Wireless Stations: A Cognitive Approach

Shahbaz Khan, Brunel University, United Kingdom

Location-based services and localization in WiMAX networks

Mussa Bshara, Vrije Universiteit Brussel, Belgium

Connection Admission Control in WiMAX Networks

Marco Castrucci, University of Rome "La Sapienza", Italy

A Generalised Low-complexity SISO Sphere Decoder for Lattice-based Communication Systems

Fabien Héliot, University of Surrey, United Kingdom

A BLER based UL LTE AMC featuring Fast Upgrade and Emergency Downgrade

Carsten Ball, Nokia Siemens Networks GmbH & Co KG, Germany

A Base Station Assignment Strategy for Radio Access Networks with Backhaul Constraints

Hiram Galeana, Universitat Politècnica de Catalunya, Spain

Geo-mobility and Location Service in Spontaneous Wireless Mesh Networks

Andrzej Duda, Grenoble INP, France

A Proposed QoS Reservation Mechanism for Broadband Hybrid Wireless Access

Emanuel Puschita, Technical University of Cluj-Napoca, Romania

The FIREWORKS Project: Flexible Relay Wireless OFDM(A)-based Networks

Antonis VALKANAS, INTRACOM Telecom S.A., Greece

Capacity of WCDMA System for Aeronautical Communications

Bazil Ahmed, ETSI Telecom., UPM, Spain

Performance Evaluation of a Medium Access Control Protocol for a Distributed ARQ Scheme in Cooperative Wireless Networks

Jesús Alonso-Zárate, CTTC, Spain

Gigabit Home Networks, OMEGA ICT Project

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

Applicability of HOKEY to secure FMIPv6

Yuankui Zhao, Huawei technologies Co.,Ltd, China

Improvements in Transmission over Optical Backbones of Mobile Networks

Eszter Udvary, Budapest University of Technology and Economics, Hungary

12:30 Lunch

Exhibition & Networking

14:00 Session 3a

[4G and Beyond: Architectural and QoS Aspects](#)Chair: [Javier R. Fonollosa, Universitat Politècnica de Catalunya \(UPC\), Spain](#)**The Study on the Enhanced Trunk Reservation Mechanism for S-UMTS CAC**

Wei Guo, University of Bradford, United Kingdom

A Real-time Platform for End-to-edge QoS Evaluation in Heterogeneous Networks

Anna Umbert, Universitat Politècnica de Catalunya, Spain

Fast Mobility in Proactive Routing Protocols

Rui Aguiar, Universidade de Aveiro, Portugal

Support of Interactive Services with QoS in Broadcast Unidirectional Networks

Susana Sargento, Universidade de Aveiro, Portugal

The Daidalos Interdomain QoS Architecture

Vitor Jesus, Universidade de Aveiro, Portugal

14:00 Session 3b

UWB

Chair:

UWB in Heterogeneous Access Networks

Ana Sierra, Telefónica I+D, Spain

Radio Channel Issues for DAA between UWB and WiMAX

Raffaele D'Errico, ENSTA, France

Investigation of the Mutual Coupling Effects on the Performance of UWB Multiple Antennas Systems Using Typical UWB Vivaldi Antennas

Mohamed El-Hadidy, University of Hannover, Germany

Avoiding Method of DAA in WiMedia MB-OFDM UWB

Jeong-Sang Lee, Samsung Electronics Co. Ltd., Republic of Korea

A Non-Coherent Ultra Wide Band Radio Development and Demonstration Platform

Dusan Radovic, TES Electronic Solutions, Germany

14:00 Session 3c

Radio Technology for Sensor Networks

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

Ultra Low Power Local Positioning Systems for Wireless Sensor Networks

Ralf Eickhoff, Dresden University of Technology, Germany

Link Adaptation for Autonomous IR-UWB Networks

Maria Dolores Perez Guirao, Leibniz Universitaet Hannover, Germany

Time-Variant Ultra-Wideband Radio Channel Measurements in Industrial Environment

Jürgen Kunisch, IMST GmbH, Germany

Body Shadowing in a Multipath Environment in Wireless Sensor Networks

Martijn Kuipers, Technical University of Lisbon, Portugal

Opportunistic Power Allocation in Wireless Sensor Networks with Imperfect Channel State Information

Javier Matamoros, CTTC, Spain

System-level Optimisation of an Ultra-Low Power RF IEEE802.15.4 System-on-Chip

Eric Mercier, CEA-Leti, France

14:00 Session 3d

Service Creation

Chair: [David Kennedy, Eurescom, Germany](#)

Making Services Creation Possible for (Almost) Everyone

Sian Lun Lau, University of Kassel, Germany

Easy Service Creation of Local Mobile Services on an Open SOA Platform

Stephan Flake, Orga Systems GmbH, Germany

Towards the Automation of the Service Composition Process: Case Study and Prototype Implementations

Mazen Shiaa, NTNU, Norway

Extending Reusable Asset Specification to Describe Simple Mobile Services

Georgia Kapitsaki, National Technical University of Athens, Greece

Structural and Quantitative Evaluation of Multi-Actor Business Models for Mobile Service Platforms

Pieter Ballon, IBBT-SMIT, Vrije Universiteit Brussel, Belgium

14:00 Poster Session 3e

Research Strategies & Security

Chair: [Nigel Jefferies, Vodafone Group Services Ltd, United Kingdom](#)

The FP6 STOLPAN Project: Building up an European NFC Ecosystem

Carlo Maria Medaglia, University Of Rome "La Sapienza", Italy

Wireless Hybrid Enhanced Mobile Radio Estimators - WHERE

Simon Plass, German Aerospace Center (DLR), Germany

RFID-DOT: RFID Delegation and Ownership Transfer Made Simple

Tassos Dimitriou, Athens Information Technology, Greece

Switched MEMS Antenna for Handheld Devices

M .Bilal Khalid, KTH Signal Processing, Sweden

Safe Access to Computing Resources in Personal Networking Environments

Charalampos Patrikakis, NTUA, Greece

SWIFT Bridges the Telecom Gap

Joao Girao, NEC Europe Ltd., Germany

15:30 Coffee Break

Exhibition & Networking

16:00 Session 4a [4G and Beyond: Relaying and Coordination Aspects](#)

Chair: [Albert Banchs, Universidad Carlos III de Madrid, Spain](#)

Cooperative Relaying in an Indoor Environment

Michal Wodczak, Poznan University of Technology, Poland

Enhancing 802.16 Networks through Infrastructure-based Relays

Olga Muñoz, Universitat Politècnica de Catalunya, Spain

On Interference Coordination in Metropolitan Area Relay Networks

Klaus Doppler, Nokia Research Center, Finland

The Benefits of Relay Selection in WiMAX Networks

Jose Vicario, UAB, Spain

Performance Study on Cooperative Relaying Topologies in beyond 3G Systems

Eike Reetz, University of Applied Sciences, Germany

16:00 Session 4b

UWB Technologies

Chair: [Sven Zeisberg, University of Applied Sciences, Germany](#)

EUWB - Coexisting Short Range Radio by Advanced Ultra-Wideband RadioTechnology

Sven Zeisberg, University of Applied Sciences Dresden, Germany

Capacity Analysis of High Data Rate Wireless Personal Area Networks

Sahibzada Ali Mahmud, Brunel University, United Kingdom

WiMedia Based UWB System Concept with Fast Frequency Hopping OFDM

Christoph Spiegel, Universität Duisburg-Essen, Germany

Development, Implementation and Verification of a UWB Wireless BAN-based Platform with GUI

Stephan Robert, HEIG-Vd, Switzerland

Very High Data Rate Ultrawide Band (UWB) Communication System Concept

Veselin Brankovic, TES Electronic Solutions GmbH, Germany

16:00 Session 4c

Sensor Network Architectures and Protocols

Chair: [Ingrid Moerman, IBBT-Ghent University, Belgium](#)

Integrating Wireless Sensor Networks into IMS

Alexander Gluhak, University of Surrey, United Kingdom

Opportunistic Distance-Aware Routing in Multi-Sink Mobile Wireless Sensor Networks

Bernd-Ludwig Wenning, University of Bremen, Germany

SENSEI - Integrating the Physical with the Digital World of the Network of the Future

Mirko Presser, The University of Surrey, United Kingdom

Resilient Network Coding for Wireless Sensor Networks

Yee Wei Law, The University of Melbourne, Australia

Evaluation of Wake up Methods in Battery Powered Wireless Sensor Networks

Thomas Wendt, Albert-Ludwigs-University of Freiburg, Germany

On Cooperative Protocols with Binary Input

George Karystinos, Technical University of Crete, Greece

16:00 Session 4d

Service Enabling Technologies

Chair: [Riccardo Pascotto, T-Systems, Germany](#)

Combining GPS and WLAN based Position Estimators in Real Scenarios

Krzysztof Kordybach, VTT, Finland

Multicast Groups based on Transcoding

Madiha Zafar, Univeristy of The West of England, United Kingdom

GREAT - Galileo Receivers for Mass Market

Stephan Sand, German Aerospace Center (DLR), Germany

A Day in the Wireless World: Hands-on Experiences of the Future Wireless World

Kostas Tsagkaris, UPRC, Greece

A Scalable Platform for Context-aware and DRM-enabled Adaptation of Multimedia Content

Hemantha Kodikara Arachchi, University of Surrey, United Kingdom

16:00 Poster Session 4e

Fixed Mobile Convergence

Chair:

How to Face Convergence to Guarantee End-to-end Quality of Service

Gomez-Rojo Nuria, Telefónica Investigación y Desarrollo, Spain

Samba DVB-H: A Pioneering and Innovative Quality of Experience Monitoring and Simulation DVB-H Platform

Sergio Fernández Pastor, HyC, Soluciones de Vídeo y Comunicaciones, Spain

Inter-MAC: Convergence at MAC layer in Home Gigabit Network

Silvano Mignantí, University of Rome "La Sapienza", Italy

Renewal Properties of Rain Fade and Interfade Duration on Radio Links

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

An Overview of Market, Institutional, and Social Drivers and Barriers for Content in the Mobile Platform

Claudio Feijoo, IPTS, JRC, European Commission, Spain

Autocovariance Receiver for Quasi-OSTBC: Performance Characteristics for a Generalized Gaussian MIMO Channel

Serguei Primak, The University of Western Ontario, Canada

Fibre Optic Networks for Distributed, Extendible Heterogeneous Radio Architectures and Service Provisioning

Atilio Gameiro, University of Aveiro, Portugal

17:30 End of Conference Day

19:00 - 22:00 Conference Dinner, Solliden Restaurant, Skansen



Wednesday, June 11, 2008

09:00 Plenary 5a

Mobile Broadband for All

Chair: Peter Stuckmann, European Commission

Mobile broadband access is now becoming widely available. Future mobile systems will support a wide range of rich services, including for example eHealth and transport applications, and access to video content, which will continue to push mobile networks towards higher bitrates. This panel will address the requirements and capabilities of such key applications, and identify the major research issues to be solved to enable a wide availability of mobile services with several Gbit/s cell capacity.

10:30 Coffee Break

Exhibition & Networking

11:00 Session 6a

4G and Beyond: MAC-Layer Aspects

Chair: Stefan Kaiser, DoCoMo Euro-Labs, Germany

Dynamic Resource Allocation Architecture for IEEE802.16e: Design and Performance Analysis

Alberto Nascimento, Instituto de Telecomunicações, Portugal

A Multi-Mode MAC Protocol Integrating FDD and TDD for Next Generation Multi-Hop Mobile Radio Networks

Arif Otyakmaz, RWTH Aachen University, Germany

New Frequency Domain Packet Scheduling Schemes for UTRAN LTE Downlink

Stanislav Nonchev, TUT Finland, Finland

Analysis and System-Level Performance Evaluation to Multi-user Joint Mapping Scheme

Jiayin Zhang, Huawei, China

Complexity Performance Trade-off for Proportional Fair Scheduling in a Multiple Antenna OFDMA system

Alfredo Todini, University of Rome "La Sapienza", Italy

11:00 Session 6b

PHY and Coding

Chair: Marco Luise, University of Pisa, Italy

Enhancement of Cooperative Decode and Forward Scheme Based on Relay Data Quality

Reza Hoshyar, University of Surrey, United Kingdom

Enhanced Iteration Control for Ultra Low Power LDPC Decoding

Timo Lehnigk-Emden, University of Kaiserslautern, Germany

A MAP Decision Approach to Enhance Space-Time MIMO Wireless System Performance

John An, National Taiwan Ocean University, Taiwan

CDMA Based Multiuser Relay System Using Modified Turbo MUD through Conference Cooperation

Yinan Qi, University of Surrey, United Kingdom

The DS/CDMA Amplify and Forward Relay Channel: Asymptotic Spectral Efficiency

David Gregoratti, CTTC, Spain

16-QAM 10Gb/s mm-wave Wireless Links Employing Photonic Vector Modulation Techniques

Rakesh Sambaraju, Universidad Politecnica de Valencia, Spain

11:00 Session 6c

Research Strategies - Future Technologies and Tools

Chair: Ralf Eickhoff, Dresden University of Technology, Germany

Self-Organisation in Future Mobile Communication Networks

Mehdi Amirjoo, Ericsson, Sweden

Spectrum Usage Estimation Technique using Neural Networking for Opportunistic Radio

Shyamalie Thilakawardana, University of Surrey, United Kingdom

Towards Cognitive Use of Radio Resources: Shaping Radio Regulation for the Future

Klaus Moessner, University of Surrey, United Kingdom

Performance Evaluation for Multi-user MIMO Uplink with Linear and Non-linear Processing

Maria Kangas, University of Oulu, Finland

Model Driven Protocol Implementation Tools

Nick Filer, University of Manchester, United Kingdom

Implementation of a Configurable Protocol Analyser using an MDS Approach

Andy Carpenter, University of Manchester, United Kingdom

11:00 Session 6d **Fixed Mobile Convergence: Performance**

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

SCTP for Bandwidth Aggregation and Mobility in a Heterogeneous Environment

Vincent Merat, MOTOROLA, France

Packet Scheduling for Multicast/Broadcast Services

Robin Chiang, UWE, United Kingdom

HSDPA/WiFi RAT Selection Based on Load Suitability

Valdemar Monteiro, Instituto de Telecomunicações, Portugal

DVB-H and Wi-Fi Integration and Unification for Extended Mobile Broadcast: Implementation and Result

Adrian Hornsby, Tampere University of Technology, Finland

Packet Loss in a DVB-H Network

Christopher Howson, Thomson, France

Signalling for IMS and MBMS Integration

Filipe Cabral Pinto, PTIN, Portugal

11:00 Poster Session 6e **Applications**

Chair:

Security-By-Contract (SxC)

Nicola Dragoni, University of Trento, Italy

Mobile Terminal Subarea Localisation Method in GSM Networks

Dimitris Nikitopoulos, National Technical University of Athens, Greece

Federated Service Discovery

Vincenzo Suraci, University of Rome "La Sapienza", Italy

User Centric QoS Policy Management for Heterogeneous Internet Environment

Ilka Miloucheva, Fraunhofer, Germany

Federation in Daidalos

Juergen Jaehnert, Universität Stuttgart, Germany

Presence Zones for Contextual Location Based Services

Sima Nadler, IBM, Israel

MOBISERVE Project - New Mobile Services at Big Events using DVB-H Broadcast and Wireless Networks

Marius Spika, TU-Braunschweig, Germany

The SIM Card as an Enabler for Security, Privacy, and Trust in Mobile Services

Carsten Rust, Sagem Orga, Germany

P2P Networks in Ubiquitous Computing Environments to Support the Integration of Context Information into Product Lifecycle Management Systems

Karl Hribernik, BIBA, Germany

12:30 Lunch **Exhibition & Networking**

14:00 Session 7a **4G and Beyond: PHY-Layer Aspects**

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

Cyclic Delay Diversity with Channel Estimation for DVB-SH

Nicolas Cassiau, CEA-Leti/Minatec, France

Fine Tuning of MI-ACM Algorithm in LDPC Coded OFDM Transmission

Adam Piątyśzek, Poznań University of Technology, Poland

Feedback Design in Multiuser MIMO Systems Using Quantization Splitting and Hybrid Instantaneous/Statistical Channel Information

Emil Björnson, Royal Institute of Technology (KTH), Sweden

A Reconfigurable Downlink Air Interface: Design, Simulation Methodology, and Performance Evaluation

Javier R. Fonollosa, Universitat Politècnica de Catalunya (UPC), Spain

Spatial Interference Suppression for Shared Spectrum

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

14:00 Session 7b **PHY Components**

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

A Technical View on the URANUS Validation Platform

Alexander Viessmann, Universität Duisburg-Essen, Germany

Design Methodology for Base Station Diplexer Design and Tuning

Veselin Brankovic, TES Electronic Solutions GmbH, Germany

Laptop Antenna Location Effects on Electromagnetic Human Interaction with E-Shaped Back-to-Back Patch

Jerzy Guterman, Instituto de Telecomunicações, IST, Portugal

Achievable Rate Based Quantization Scheme in Half-Duplex Compress-and-Forward Relay System

Yinan Qi, University of Surrey, United Kingdom

14:00 Session 7c **System & Networking**

Chair:

Integration of PLC with Fixed and Mobile Communication Technologies

Ramón Martínez Rodríguez-Osorio, Universidad Politécnica de Madrid, Spain

Mobility Options in the IP-based Aeronautical Telecommunication Network

Serkan Ayaz, German Aerospace Center, Germany

Evaluation of RAN Concepts for Enhancing MBMS in the Framework of C-MOBILE

Christoph Joetten, Qualcomm Germany, Germany

GENEDYSA: Genetic Algorithm Based Dynamic Spectrum Allocation for Wireless Radio Networks

Duminda Thilakawardana, University of Surrey, United Kingdom

Sensing UMTS Bands Using Cyclostationary Features and Cooperation Between Opportunistic Terminals

Joaquim Bastos, Instituto de Telecomunicações, Portugal

Analysis of Variation in IEEE802.11k Channel Load Measurements for Neighbouring WLAN Systems

Christina Thorpe, University College Dublin, Ireland

14:00 Session 7d **Fixed Mobile Convergence: Architecture & Service Issues**

Chair: **George Korkmentzas, University of the Aegean, Greece**

Nomadism, Session Continuity and Roaming in a Fixed Mobile Convergent Network

Arkadiusz Sitek, Telekomunikacja Polska S.A., Poland

Design of NGN Mobile Multicast Group Service Enablers

Madiha Zafar, University of The West of England, United Kingdom

Femtocell Quality of Service over DSL Backhaul

Árpád Drozdy, Budapest University of Technology and Economics, Hungary

Towards a Converged Messaging Service

Igor Radovanovic, Eindhoven University of Technology, Netherlands

Exploiting History of Context Data for Lightweight Inference of User Status

Ioanna Roussaki, National Technical University of Athens, Greece

Network Fault Detection with Wiener Filter-Based Agent

Mouhammd Al-kasassbeh, University of Portsmouth, United Kingdom

14:00 Poster Session 7e **Sensors & Components**

Chair:

Comparative Simulations of WSN

Markus Becker, Universität Bremen, Germany

Efficient Physical Layer Security for LDR Sensor Networks

Ahmad Ahmad, Institut National des Télécommunications, France

On the Performance of Ad-hoc and Sensor Networks

Ramin Hekmat, Delft University of Technology, Netherlands

Event-Driven Simulation Framework for Large Scale Sensor Networks: Discovery, Relaying, Routing, Localization and Tracking

Giuseppe Abreu, University of Oulu, Finland

Sensor Networks for Cognitive Radio: Theory and System Design

Bertrand Mercier, THALES, France

Algorithm-Architecture Co-Design of a Multi-Standard FEC Decoder ASIP

Bruno Bougard, IMEC, Belgium

MIMAX – Exploiting the Maximum Performance and Minimum System Costs of Wireless MIMO Systems

Frank Ellinger, Dresden University of Technology, Germany

Statistical Analysis of Waveform Distortion Caused by UWB Antennas

Pedro Luis Carro, University of Zaragoza, Spain

15:30 Coffee Break

Exhibition & Networking

16:00 Session 8a

4G and Beyond: Economical Aspects

Chair: **Fiona Williams, Ericsson, Germany****Cost Assessment of Radio Access Network Deployments with Relay Nodes**

Marc Werner, Qualcomm Germany, Germany

Revenue Sharing Models for Dynamic Telecommunications Services using a Cognitive Pilot Channel

Simon Delaere, Vrije Universiteit Brussel, Belgium

The Daidalos Federation Architecture

Vitor Jesus, University of Aveiro, Portugal

Maximizing Quality of Service for Customers and Revenue for Service Providers through a Noncooperative Admission Control Game

Dimitris Charilas, National Technical University of Athens, Greece

Fixed Network Operators view on Techno-Economics of Fixed Mobile Convergence

Thomas Monath, T-Systems Enterprise Services GmbH, Germany

16:00 Session 8b

Admission Control & QoS

Chair:

A Reinforcement Learning Admission Control for Wireless Next Generation Networks

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

Fair Cooperation Protocol For Wireless Mesh Networks Based On Time-Space Volumes

Christian Ibars, CTTC, Spain

Effective Lub Congestion Control for the HSDPA Performance

Thushara Weerawardane, University of Bremen, Germany

Adaptive Resource Allocation Scheme to Provide Low-Cost Multimedia Services via Satellite

Gabriele Boccolini, University of Pisa, Italy

A Brief Survey of VoIP QoS over a Multi-RAT Heterogeneous Wireless Network

Andrea Barbaresi, Telecom Italia, Italy

Spatial Sharing for QoS Guarantees in Cognitive Radio Scenarios

Nizar Zorba, CTTC, Spain

16:00 Session 8c

System Design & Optimisation

Chair:

Guarantying QoS in MANETs using MAC Layer Measurements

Andrzej Glowacz, AGH University of Science and Technology, Poland

Configuration of IEEE 802.11e EDCA for Voice and Data traffic: An Experimental Study

Pablo Serrano, Universidad Carlos III de Madrid, Spain

Functional Description Language

Shi Zhong, TOSHIBA TRL, United Kingdom

A Low-Complexity Transmit Cooperation Scheme based on Layered Higher Order Modulation

Reza Hoshyar, University of Surrey, United Kingdom

Positioning Uncertainty when Trilaterating Mobile Targets in 2D using Two References

Marc Ciurana Adell, Universitat Politècnica de Catalunya, Spain

16:00 Session 8d

Ubiquitous Content

Chair: **Djamal Zeghlache, Institut National des Telecommunications, France****A Simple Model of Service Dependent Channel Allocation in Mobile Networks**

Kolio Ivanov, Nokia Siemens Networks GmbH & Co. KG, Germany

Advanced Media Delivery in IMS-based Networks

Christian Riede, Fraunhofer Institute Fokus, Germany

A Semantic Device and Service Description Framework for Ubiquitous Environments

Suparna De, University of Surrey, United Kingdom

16:00 Poster Session 8e

4G & Beyond

Chair:

Management System for Cognitive Terminals Exploiting Reconfigurable Connectivity

Dionysis Petromanolakis, University of Piraeus, Greece

Situated Message Delivery for Opportunistic Networks

Juhani Latvakoski, VTT, Finland

Enhanced Wireless Communication Systems Employing Cooperative Diversity

Atílio Gameiro, University of Aveiro, Portugal

Capacity Comparison between Alamouti and Cooperative VAA with EF and AF Relays

Sara Teodoro, University of Aveiro, Portugal

Network Topology Assisted Handover Analysis for Modelling Cellular/WLAN Integrated Systems

Guozhi Song, Queen Mary, University of London, United Kingdom

FP7 E3 Project: Introducing Cognitive Wireless Systems in the B3G World

Didier Bourse, Motorola, France

E3 - WP3: Vision and Technical Approach

Edgar Kuehn, Alcatel-Lucent Bell Labs Germany, Germany

FP7 E3 WP5 Overview

Enrico Buracchini, Telecom Italia Lab, Italy

A Proof of Concept Architecture for Self-Configuring Autonomic Systems

Panagis Magdalinos, University of Athens, Greece

Dynamic Load-Management of Radio Resources

Paolo Gorla, Telecom Italia, Italy

Architecture for End-to-End Efficiency Distilled from Reconfigurability Outcomes

Zachos Boufidis, University of Athens, Greece

Efficient Switch between MIMO Single Link / Multi Link Communication in the Context of VoIP

David Bateman, Motorola, France

Identification of Market Opportunities for Cognitive Systems

Makis Stamatelatos, National and Kapodistrian University of Athens, Greece

An Agent-based Prototype Environment for the Efficient QoS Management of Cognitive Heterogeneous Wireless Networks

Nikos Koutsouris, University of Piraeus, Greece

Enhanced Context Acquisition Mechanisms for Achieving Self-Managed Cognitive Wireless Network Segments

Aggelos Saatsakis, University of Piraeus, Greece

End-To-End Efficiency Assessment in Autonomic and Cognitive Systems

Mikhail Smirnov, Fraunhofer FOKUS, Germany

A Functional Architecture for Optimized Radio Resource and Spectrum Usage in Heterogeneous Wireless Networks

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

Enhancing Multiuser Diversity for OFDMA via Multiple Weighting Vectors in a Reduced Feedback Opportunistic Beamforming Scheme

Marios Nicolaou, University of Bristol, United Kingdom

Assessing Personal Networks on a pan-European Testbed

Luis Sanchez, University of Cantabria, Spain

WINNER II System Concept: Advanced Radio Technologies for Future Wireless Systems

Carl Wijting, Nokia Research Center, Finland

Management of Mobile Terminals in Multi-homed B3G Network Environments

Nikolaos Koutsouris, National Technical University of Athens, Greece

Direct Communication Between Terminals in Infrastructure based Networks

Isameldin Suliman, University of Oulu, Finland

The FP7 ROCKET Project: Wireless Access Technology for Homogeneous High Rate Coverage

Sebastien Simoens, Motorola Labs, France

17:45 Plenary Panel 9a

Energy Efficient Communication

Chair: **Andrew Houghton, European Commission**

Growth rates in mobile communications are directly correlated with dramatically higher energy consumption. This is due to regular renewal of terminals and world-wide operation of network infrastructure from base stations to massive server farms. On the other hand, communication technology has the potential to reduce energy consumption by reducing transportation needs by leveraging applications such as virtual meetings, tele-working and e-learning. This panel will discuss the key factors of energy consumption induced by communication networks, as well as potential "green" technologies that can help reduce energy consumption.

18:45

End of Conference Day



Thursday,
June 12, 2008

The Programme is subject to change without notice at the discretion of the Technical Programme Committee Chair. The Final Programme will be published in May. Please view the Online Programme for the most up-to-date information.

09:00 Plenary 10a Future Internet Initiatives I
Chair: [Rainer Zimmermann, European Commission](#)

10:30 Coffee Break Exhibition & Networking

11:00 Plenary 11a Future Internet Initiatives 2
Chair: [Paulo De Sousa, European Commission](#)

12:30 Lunch Exhibition & Networking

13:30 Session 12a Future Internet Architectures & Technologies
Chair:

The Way 4WARD Addresses the Creation of a Future Internet
Norbert Niebert, Ericsson, Germany

MPLS Overlays: Design, Implementation and Application to Anonymous Networking
Simone Teofili, University of Roma Tor Vergata, Italy

An Event-based Distributed Simulation Platform for inter-System Optimization studies in Composite Wireless Networks
George Komentzas, National Center for Scientific Research "Demokritos", Greece

RTFM: Publish/Subscribe Internet Working Architecture
Teemu Rinta-aho, Ericsson, Finland

Smooth and Optimal TCP Flow Control for Future Internet
Jiong Jin, The University of Melbourne, Australia

Link Layer Security Design for IPv6 over Satellite DVB Networks
Haitham Cruickshank, University of Surrey, United Kingdom

15:15 Coffee Break Exhibition & Networking

15:30 Session 13a Pervasive and Trusted Networks Issues
Chair: [Bart Van Caenegem, European Commission](#)

Personal Networks as Distributed Clients for IMS
Ernö Kovacs, NEC Europe Ltd, Germany

An Analysis of the Performance of an MIH Based Switch Strategy for Heterogeneous Network Mobility
Enda Fallon, University College Dublin/Athlone I.T, Ireland

Privacy-Aware Accounting and Billing
Vincenzo Falletta, University of Roma Tor Vergata, Italy

Privacy-Preserving Network Monitoring: Challenges and Solutions
Sathya Rao, Telscom AG, Switzerland

Privacy and Identity Management in a Layered Pervasive Service Platform
Marc Barisch, University of Stuttgart, Germany

Registration Information

It is necessary for all **ICT-MobileSummit 2008** delegates to register online. Each delegate should be registered separately.

Conference Fees

Authors Fees (Due by 04 April)

- Authors **€550**

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

Delegates' Fees - Early Bird (Due by 04 April)

- Early Bird **€600**

Delegates' Fees - Full Fee from 05 April

- Delegate Full Price **€700**

The Conference Fee includes:

- Entrance to all Plenary and Parallel Sessions
- Entrance to Exhibition
- Documentation with Proceedings on CD-Rom
- Three luncheons and refreshments at morning and afternoon breaks
- Welcome Networking Reception - Monday 09 June
- Conference Dinner - Tuesday 10 June
- Cyber Café facilities

Terms & Conditions

1. All authors who are presenting a paper at **ICT-MobileSummit 2008** must complete their payment registration and ensure payment is received by **04 April** 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. Accepted Exhibitors (other than accepted presenters) must complete payment registration by **04 April**.
4. Delegates' fees must be paid before admission to the Conference and Exhibition.
5. 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.
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8. 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 "**ICT-MobileSummit 2008 Conference**", your name, organisation and invoice number (if relevant).
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10. Conference registration or hotel accommodation is not confirmed until full payment is received.

11. Online registration facilities conference registration, participation in pre-conference event, booking of hotel accommodation, attendance at Welcome Networking Reception and Conference Dinner, and booking of social tours. It is possible to go back through online registration at any stage, book items not previously confirmed and make payment.

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

Stockholm

Stockholm is the capital of Sweden. The city centre is quite compact and it is possible to walk to all major sites. Stockholm has more than seventy museums, offering significant choice for different tastes. Delegates should endeavour to visit the Vasa Museum, Skansen Open-air museum and Junibacken in Djurgården, the City Hall and Royal Palace, Gamla Stan (Old Town) and Drottningholm Palace.

Arlanda International airport is located 27 kilometres north of Stockholm.

Delegates can choose to travel to Stockholm via the Arlanda Express (takes 20 mins), by taxi (takes 25 - 50 mins depending on time of day) or public bus.

Partners & Post Conference Social Programme

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

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Exhibition

ICT-MobileSummit 2008 Exhibition showcases applied ICT research results and applications through technology demonstrations and posters, whether funded commercially, or at a national, regional or European level.

Posters

Poster Name	Organisation	Country
ICT ALPHA - Architectures for fLexible Photonic Home and Access networks	Acreo AB	Sweden
UNIC: UNiversal home connection for Satellite-delivered Triple-play Services	University of Pisa	Italy
RElay based Wlreless Network and standarD – REWIND	Technological Educational Institution (TEI) of Athens	Greece
eChallenges e-2008 Conference & Exhibition	IIMC Ltd	Ireland

Demonstration Stands

Stand Name	Organisation	Country
DG Information Society & Media	European Commission	Belgium
eMobility	Ericsson	Germany
E3	Motorola	France
Magnet Beyond	Aalborg University	Denmark
Pulsers II & EUWB	GWT-TUD GmbH	Germany
SURFACE	Fraunhofer SIT	Germany
UNITE - Virtual European Testbed	Institut Eurecom	France
Hydra - Middleware for Networked Devices	Fraunhofer SIT	Germany
FIREWORKS/ROCKET	INTRACOM Telecom S.A.	Greece
MEMBRANE	Intel Corp	Russia
SPICE (Service Platform for Innovative Communication Environment)	France Telecom	France
Converged Messaging	Acision BV	Netherlands
SENSEI	Telefónica I+D	Spain
Continuous IMS voice for Fixed-Mobile Convergent Environment	Telenor R&I	Norway
ENISA	ENISA	Greece

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