



HELLENIC REPUBLIC
Ministry of Digital Policy,
Telecommunications and Media



IEEE 5G Greece Summit

Tuesday, July 11, 2017

Thessaloniki, Greece

Conference Centre of Piraeus Bank (12-14 Katouni st., Thessaloniki, Greece)

Program

Opening Session

(08:45 – 09:00)

Prof. Ramjee Prasad and Minister Nikos Pappas

Panel: The Global 5G Vision, Standardization and Telecommunication Policies

(09:00 – 10:45)

Moderator: Kostas Pentikousis (Traveling GmbH, Germany)

NR - The new 5G radio access

Erik Dahlman (Ericsson Research, Sweden)

Towards a 5G mobile system architecture - standardization update

Mariana Goldhamer (4GCelleX, Israel)

Spectrum and regulatory considerations for the 5G

Dimitrios Vergados (Hellenic Telecommunications and Post Commission, Greece)

5G Phase 1 Standardization: Reality Check

Riccardo Trivisonno (Huawei, Germany)

5G, a Network Operator's Point of View

Tilemachos Doukoglou (COSMOTE S.A., Greece)

The path to 5G: Impact & challenges for MNO network

Argiris Darzentas (Vodafone Group Services Limited, Greece)

ZTE vision on 5G technology - Leading 5G Innovations

Victor Pascual (ZTE, Spain)

5G and its business potential for digitalization

Maria Boura (Ericsson South East Europe, Greece)

Coffee Break (10:45 – 11:00)

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Session 1: The Network and Verticals Perspective

(11:00 – 13:30)

Platforms for Advanced Wireless Research (PAWR): Exploring a new Research Paradigm

Abhimanyu Gosain (PAWR Project Office, Northeastern University, USA)

5G Network Slicing for Industry Vertical

Xavier Costa-Perez (NEC Laboratories Europe, Germany)

5G Network Slicing: Use Cases and Key Technologies

Konstantinos Samdanis (Huawei, Germany)

Emerging 5G technologies and insights from experiments with selected vertical domains

Panagiotis Demestichas (University of Piraeus, Greece)

Network Slices Towards 5G Communications

Kostas Katsalis (Huawei Munich, Germany)

5G and Automotive The Perfect Storm

Carla Fabiana Chiasserini (Politecnico di Torino, Italy)

5G-Transformer: 5G Mobile Transport Platform for Verticals / 5G-Crosshaul Project overview and Demo Activity

Carla Fabiana Chiasserini (Politecnico di Torino, Italy)

Network slicing: A key technology for 5G & its impact on virtual mobile network operators

Athanasios Lioumpas (CYTA Hellas, Greece)

Forthnet / Nova in 5G

Manolis Chaniotakis (Forthnet Group, Greece)

Towards a Future Multi-Service Mobile Network Architecture

Mahesh K. Marina (The University of Edinburgh, UK)

Lunch Break (13:30 – 14:00)

Session 2: The 5G eco-system and IoT

(14:00 – 15:15)

Narrow-band IoT: an opportunity to extend IoT world with 5G

Gennaro Boggia (Politecnico di Bari, Italy)

Spatial Modulation Based on Reconfigurable Antennas – A New Air Interface for the Internet of Things

Marco Di Renzo (CNRS – CentraleSupélec, France)

Toward haptic communications for IoT in 5G

Jean-Marie Gorce (INSA de LYON, France)

Green Virtualization for Multiple Collaborative Cellular Operators: Benefits and 5G Challenges

Elias Yaacoub (Arab Open University, Lebanon)

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COOL: Common Optimization and Operation framework based on network utility theory for 5G technologies & IoT

Symeon Papavassiliou (NTUA, Greece)

Session 3: The Radio Perspective for 5G

(15:15 – 16:30)

Research Challenges towards Ultra-Reliable Wireless Communications

Petar Popovski (Aalborg University, Denmark)

Low Cost Massive MIMO: A key technology for 5G

Michalis Matthaiou (Queen's University Belfast, UK)

A different look to Massive MIMO

Ana Garcia Armada (UC3M, Spain)

Terrestrial communication in X/K bands aided by hybrid antenna arrays & precoding techniques

Constantinos B. Papadias (Athens Information Technology, Greece)

Millimeter-Wave Based Networking in 5G Communication Systems

Claudio Fiandrino (IMDEA, Spain)

Battle of the Waveforms for 5G

Gunes Karabulut Kurt (Istanbul Technical University, Turkey)

Coffee Break (16:30 – 16:45)

Session 4: European Research Projects on 5G

(16:45 – 19:00)

Framework for the Design, Development and Orchestration of 5G-ready Applications and Network Services, over Sliced Programmable Infrastructures

Panagiotis Demestichas (University of Piraeus, Greece)

The 5G COHERENT Architecture

Kostas Pentikousis (Traveling GmbH, Germany)

5G-XHaul: A wireless-optical transport network with SDN control for converged fronthaul and backhaul services in 5G

Anna Tzanakaki (University of Bristol, UK)

5G-PICTURE - Programmable Infrastructure Converging disaggregated neTwork and compUte Resources

Anna Tzanakaki (University of Bristol, UK)

5G automation and qualification frameworks serving energy networks

Artemis Voulkidis (Synelixis, Greece)

SLICENET End-to-End Cognitive Network Slicing and Slice Management Framework in Virtualised Multi-Domain, Multi-Tenant 5G Networks

Anastasius Gavras (Eurescom, Germany)

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VirtuWind: Virtual and Programmable Industrial Network Prototype deployed in operational Wind Park

Andreas Miaoudakis (FORTH Hellas, Greece)

5G ESSENCE: Embedded Network Services for 5G Experiences

Olga E. Segkou (Orion Innovations PC, Greece)

Main aspects and impact of 5G-Phase II projects Bluespace, 5G-Media and Slicenet

George Agapiou (COSMOTE S.A., Greece)

5G-Xcast , developing Broadcast and Multicast capabilities for the 5G

Louis Christodoulou (Samsung, UK)

5G-PHOS Project: 5G integrated Fiber-Wireless networks exploiting existing photonic technologies for high-density SDN-programmable network architectures

George Kalfas (Aristotle University of Thessaloniki, Greece)

Closing Session

(19:00 – 19:15)