

EUCNC 2016

European Conference on Networks and Communications | Athens, Greece

The Dawn of 5G

27 - 30 June 2016

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CALL FOR PAPERS



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Convergence with Emerging Concepts

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Business Aspects - Vertical Markets. - Apps./Servs.

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Testbeds and Experimental Research

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EucNC 2016 is the 25th edition of a successful series of a conference in the field of telecommunications, sponsored by the European Commission. The conference focuses on aspects like 5G communications systems and networks, cloud platforms, management technologies, and applications and services. It targets to bring together researchers from all over the world to present the latest research results, and it is one of the main venues for showcasing (demonstrating, trialling) the results of research projects, especially, from successive European R&D programmes co-financed by the European Commission. Papers for regular sessions are invited in the following Tracks:

Air Interfaces (PHY, MAC, RRM)

5G air interfaces.

Advanced modulation schemes, new coding solutions, FEC, HARQ, PAPR optimisation.
Advanced Radio RRM and MAC functions.
Antennas and propagation.
Cloud-RANs, fronthaul/backhaul aspects.
Communications at the mm wave range.
MIMO advances.
Multi-service (MBB, MCC, MTC, etc.) support.
New air interfaces below 6GHz.

Optical Comms. - Networks

Advances in optical access networks.
Components and communications.
Gigabit home and in-building networks.
High-split next generation FTTH PONs.
Optical and digital signal processing.

Software-Defined Infrastructures

Network function virtualisation advances.
Network overlays and federation.
Network programmability.
SDN-based switch/router architectures.
Software defined networking challenges.
Traffic engineering, QoS, energy-efficiency.

Management Technologies

Autonomic network management.
Big Data, analytics, predictive and prescriptive technologies.
Cognitive and self-learning mechanisms.
Energy-efficient networks/infrastructures.
Management architectures and frameworks.
Management of resources, services and customer experience.
Resilience and network reliability.
Security, trust, and privacy.

Convergence w. Emerging Concs.

Big data infrastructures and applications.
Cloud infrastructures, distributed clouds.
Convergence with IT technologies.
Cyber-physical systems.
Data centre systems.
Distributed storage and middleware.
Fog computing.
Hybrid satellite and terrestrial networks.
Internet of Things, Machine to Machine.
OTT technologies.

Smart embedded systems.

Smart systems at the nano-scale.

Business Aspects - Vertical

Markets - Applications/ Services

Applications of the tactile Internet.
E-Health and emergency management.
Emergency and safety systems.
Emerging business models, monetisation of infrastructures and services.
Intelligent Transportation Systems.
Multimedia services and applications.
Peer-to-peer, application and service overlays.
Smart cities, smart grids and environments.
Social networks.

Testbeds and Experimental Res.

Advanced multimedia testbeds/facilities.
Cloud testbeds/facilities.
Cognitive radio testbeds/facilities.
Experimentally-driven research.
Experimenter/end-user involvement.
Federation of testbeds/facilities.
Real-time system operation visualisation.
Smart cities, IoT and M2M testbeds/facilities.
Tools & techniques for testbeds management.

Key dates

5 Feb. 2016 – Paper submission deadline

8 Apr. 2016 – Notification of acceptance

22 Apr. 2016 – Final paper submission