

5G: European Roadmap, Global Impact



Tekes

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EuCNC 2017 is the 26th edition of a successful series of technical conferences in the field of telecommunications, sponsored by the European Commission. The event will be organised in Oulu, Finland. It targets to bring together researchers from all over the world to present the latest research results, being one of the main venues for showcasing, demonstrating and trialling the results of research projects, especially, from successive European R&D programmes co-financed by the European Commission. Papers for the regular sessions are invited in the following tracks:

PHY - Physical Layer and Fundamentals

5G air interfaces

Advanced modulation schemes, new coding solutions, FEC, HARQ, PAPR optimisation

Antennas and propagation

Communications at mm waves and sub-THz

MIMO advances

Multi-service (MBB, MCC, MTC, etc.) support

New air interfaces below 6 GHz

Technologies for M2M and IoT networks

RAT - Radio Access Technologies towards 5G

Advanced radio RRM and MAC functions

Broadband wireless access techniques,

systems, and standards

Cooperative communications

Dynamic spectrum use

Energy efficient RATs

Machine Type Connectivity access technologies for massive communications

New enablers for new frequency bands

New enablers for Ultra Reliable Low Latency Communications

Physical-layer security

WON - Wireless and Optical Networks

5G access and core networks

Advances in optical networks

Components and communications

Cloud-RAN and fronthauling

Gigabit home and in-building networks

M2M, WSN, IoT networks

Next generation PONs

Optical signal processing

Optical/Wireless convergence

Traffic engineering, QoS and QoE

NET - Networking

Content delivery, information centric, and data aware networks

Integrated and hybrid satcom/terrestrial nets

Navigation and observation integrated archit.

Network mobility management

Network operating systems & control

Network overlay, virtualisation, and federation

Platforms & middleware for seamless services

Satellite media, broadband, and safety

delivery

Satellite-based services and architectures

Security, trust, and privacy

Software defined networking

APS - Applications & Services

Application and services for mobile

environments

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

TER - Testbeds & Experimental Research

Advanced multimedia testbeds/facilities

Cloud testbeds/facilities

Cognitive radio testbeds/facilities

Experimentally-driven research

Experimenter/end-user involvement

Federation of testbeds/facilities

ICT in verticals

Real-time system operation visualisation

Smart cities, IoT and M2M testbeds/facilities

Tools & techniques for testbeds management

Key Dates

2017 Feb. 06 – Paper submission deadline

2017 Apr. 10 – Notification of acceptance

2017 Apr. 21 – Final paper submission

