

# EUCNC 2015

European Conference on Networks and Communications | Paris, France

## 5G, Shaping the Vision



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## CALL FOR PAPERS

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#### WIN - Wireless Networks

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Li-Chun Wang, NCTU, Hsinchu, TW

#### OPN - Optical Networks

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Tarek El-Bawab, JSU, Jackson, USA

#### NET - Networking

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Mike Devetsikiotis, NCSU, Raleigh, USA

#### APS - Applications and Services

Joel Rodrigues, Univ. Beira Int., PT  
Nelson Fonseca, UNICAMP, BR

#### TER - Testbeds & Experimental Research

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EUCNC 2015 is the 24th edition of a successful series of a technical conference in the field of telecommunications, sponsored by the European Commission. The conference focuses on communications systems and networks, reaching applications and services. It targets to bring together researchers from all over the world to present the latest research results in networks and communications and the new developments in this field, and it showcases the results of projects from successive European R&D programmes co-financed by the European Commission.

Accepted and presented papers will be published in the Conference Proceedings and submitted to IEEE Xplore as well as other Abstracting and Indexing (A&I) databases. Papers for regular sessions are invited in the following Tracks:

#### PHY - Physical Layer and Fundamentals

Advanced modulation schemes  
Antennas and propagation  
Beamforming and multi-antenna signal proces.  
Cognitive and green radio  
Cooperative communications  
High-split next generation FTTH PONs  
Interference mitigation  
Millimetre-wave and THz communications  
Optical front-hauling of antenna access points  
Physical-layer security  
Positioning, localisation, and tracking  
Single-user, multi-user, and massive MIMO

#### WIN - Wireless Networks

Ad-hoc, multi-hop, and mesh networks  
Cognitive, doctive, and adaptive MACs  
Cognitive, self-organising & green networks  
Delay-tolerant networks  
Dynamic spectrum & interference mngmt.  
Joint access and backhaul scheduler design  
M2M, WSN, IoT networks  
Mobile and wireless IP & mobile computing  
Next-generation broadband networks & 5G  
Radio resource management, routing & QoS  
Wireless multi-, broad-, and geocasting

#### OPN - Optical Networks

Advances in optical access networks  
Advances in optical network architectures  
Gigabit home and in-building networks  
High performance clouds & datacentre infrastr.  
Mobile backhaul for fixed-mobile convergence  
Network management, virtualisation & security  
Optical and digital signal processing  
Resilience and network reliability  
Service and network orchestration  
Software-defined transmission & switching

#### NET - Networking

Content delivery and information centric nets.  
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-based services and architectures  
Satellite media, broadband and safety delivery  
Security, trust, and privacy  
Software defined networking

#### APS - Applications and Services

Big data, Data management, and analytics  
Cloud infrastructures, computing & services  
Data centre systems  
Distributed storage and middleware  
e-Health and emergency management  
Heterogeneous network interoperability  
IoT scalable architectures and enabling techn.  
Multimedia services and applications  
Peer-to-peer, application and service overlays  
Security, trust, and privacy  
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  
IoT and M2M testbeds/facilities  
Real-time system operation visualisation  
Smart cities testbeds/facilities  
Tools & techniques for testbeds management

### Key Dates

6 Feb. 2015 – Paper submission deadline

10 Apr. 2015 – Notification of acceptance

24 Apr. 2015 – Final paper submission