

## Enabling Smart Connectivity

18 - 21 June 2019

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## CALL FOR PAPERS

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#### *NET - Network Softwarisation*

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#### *VAP - Vertical App. and Internet of Things*

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EuCNC 2019 is the 28<sup>th</sup> edition of a successful series of a conference in the field of telecommunications, sponsored by the European Commission. The conference focuses on various aspects of 5G communications systems and networks, including cloud and virtualisation solutions, management technologies, and vertical application areas. 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 demonstrating the results of research projects, especially from successive European R&D programmes co-financed by the European Commission. This year's event also encourages insights from industrial deployments and experiences in the OPE track.

EuCNC 2019 will be co-located with the Global 5G Event, which brings together the world 5G industrial associations: 5G-IA, IMT-2020, 5G-Forum, 5G-MF, 5G-Brasil and 5G-Americas.

We invite submissions in 6 tracks on a wide range of topics including but not limited to:

#### *PHY - Physical Layer and Fundamentals*

New air interfaces (5G, MTC, mmWave, etc.)  
Beyond 5G, Terahertz communication  
New modulation and coding techniques  
New antenna arrays and antenna types  
Reconfigurable radios and new radio heads  
Advanced and massive MIMO  
Hardware/Software co-design and implementation

#### *RAS - Radio Access and Softwarisation*

New spectrum management and sharing methods  
Reconfigurable and energy efficient RRM  
Modular and reconfigurable MAC  
Soft-RAN and fronthauling  
Cognitive and green radio  
New access architectures and technologies in 5G (UNB, UWB, DSA, etc.)  
Radio slicing

#### *NET - Network Softwarisation*

New network protocols and architectures  
Cognitive network management in 5G and beyond  
Software defined networking  
Network slicing management  
Network function virtualization  
Network programming for reconfigurability, mobility management, etc.  
Fog and edge computing  
Data aware networks and overlays (P2P, CDN, ICN, etc.)  
Network operating system  
Quality (QoE and QoS) aware networking  
Security, trust and privacy

#### *WOS - Wireless, Optical and Satellite Networks*

5G access and core networks  
Advances in M2M, WSN, IoT networks  
Integrated and hybrid satellite/terrestrial networks  
Next generation passive optical networks  
Optical/Wireless convergence  
Communications for unmanned platforms  
Communications for navigation and observation

#### *VAP - Vertical Applications and Internet of Things*

Factory automation solutions  
Autonomous driving solutions  
Digital health and wellbeing  
Critical communications and public safety  
Agriculture and environmental monitoring  
Smart cities and smart grids  
Localization and location-based services  
Emerging business models and monetization strategies

#### *OPE - Operational & Experimental Insights*

5G trials and experiments  
Deployment insights from verticals (smart city, energy, digital health, public safety, automotive etc.)  
Plug-and-play deployments and experiments  
Advanced wireless platforms and testbeds  
Network applications for test and production deployments  
Network forensics, network instrumentation  
Data driven network design and optimization  
Next Generation Internet

**Key dates:** 2019 Feb. 08 – Papers submission deadline  
2019 Apr. 15 – Notification of acceptance  
2019 Apr. 26 – Final paper submission