EUCNC 2018

June 18-21

European Conference on Networks and Communications | Ljubljana, Slovenia

5G and beyond

18 - 21 June 2018

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EuCNC 2018 is the 27th 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. 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

APP – Application Areas and Services
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: **2018 Feb. 12** – Paper submission deadline
2018 Apr. 16 – Notification of acceptance
2018 Apr. 27 – Final paper submission