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International workshop on the main trends in 5G networks (MT5Gnet)

## International workshop on the main trends in 5G networks (MT5Gnet) MT5GNet 21 May 2017 (Full day)

### Keynote Speakers

Eric Hardouin, Director Ambient Connectivity research domain, Orange Labs, France  
Mérrouane Debbah, Vice-president, Huawei, FRC, France  
Geng Wu, Intel Fellow

### Scope and Motivation

Given the ever increasing traffic demand and required quality of service, current wireless access networks will soon arrive to their limit. For this reason, it is foreseen that the commercial deployment of the first 5G networks will probably occur by 2020 and will respond to a set of predefined requirements mainly: shorter end to end latency, higher number of connected devices and higher user experienced data rates (as described for example in NGMN 5G white paper).

Nevertheless, to respond to these above mentioned requirements, the way is still long and important technical challenges still need to be solved. Today, 5G is a hot research topic, gaining increasing popularity, not only among researchers in academia and industry, but also among standardization bodies.

### Topics of Interest

Topics of interest include but are not limited to the following:

- Physical layer & hardware related topics: Waveforms, synchronization; Massive MIMO; Modulation schemes ; Carrier Aggregation; Full duplex systems; New trends in channel models and usage of novel frequency bands (e.g. mm-wave)...
- Backhaul/fronthaul related topics: Joint design and optimization of radio access and backhaul/fronthaul networks; Optimized backhaul/ fronthaul integration and control; Control and data plane split
- Architecture related topics: Flexible RAN architectures and C-RAN; SDN / NFV; Edge/cloud/fog and their tradeoffs; Novel mobility management protocols
- MAC, RLC, PDCP and RRC related topics: Interoperability with existing RATs; Resource management schemes with novel requirements (HetNets, D2D communications, spectrum sharing and carrier aggregation); Multi-connectivity approaches and related system enablers, ultra-dense networking and cell-less concepts, massive MTC, UAV-assisted networks, low-latency high reliability aspects...
- Standardization & regulation

### Submission Guide Lines

All submissions should be written in English with a maximum paper length of six (6) printed pages (10-point font) including figures without incurring additional page charges (maximum 1 additional page with overlength page charge if accepted). Papers exceeding 7 pages will not be accepted at EDAS <https://edas.info/N22948>.

### Important Dates

- Paper Submission: ~~18 November 2016~~ ~~02 December 2016~~ 16 December 2016 (Closed)
- Notification Date: 17 February 2017 (Notified)
- Final Paper: 10 March 2017 (Closed)

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