



## International Workshop on 5G RAN Design

co-located with IEEE ICC 2016, May 23-27 2016, Kuala Lumpur, Malaysia

### Scope:

This workshop is jointly organized by the 5th Generation Public Private Partnership (5G-PPP) projects **METIS-II**, **FANTASTIC-5G**, **mmMAGIC** and **5G NORMA**, and aims to foster the discussion and consensus building on key 5G RAN design aspects. The workshop will provide the opportunity to share and discuss results from the mentioned projects and other 5G research activities, and to elaborate on how the 5G RAN design shall be best taken forth in the standardization which is expected to start in this time frame.

### Area/Topics of interest:

The workshop chairs solicit original, unpublished technical papers in particular in the following fields:

- Physical layer concepts related to 5G, as for instance
  - waveforms, synchronization, numerology, unified frame structure concepts
  - means to obtain ultra-low latency and ultra-high reliability
  - native support of D2D, V2X, broadcast and multi-cast
  - low-complexity massive MIMO solutions and related enablers
  - solutions for contention-based access and back-/fronthauling aspects
- MAC, RLC, PDCP and RRC concepts, in particular related to an efficient integration of multiple novel 5G air interfaces among each other, and with evolved legacy technology. Examples:
  - Novel resource management concepts, tailored to the support of a wider range of service and QoS requirements and novel communication forms such as D2D
  - Novel initial access and mobility concepts, in particular in the context of the integration and co-location of multiple novel and legacy air interface in 5G
  - Novel multi-connectivity approaches and related system enablers
- General considerations on the control and user plane design in 5G RAN

### Workshop Co-Chairs:

Dr. Patrick Marsch, Nokia Networks

Dr. Didier Bourse, Alcatel-Lucent

### Technical Program Committee (to be expanded):

**Mauro Boldi**, Telecom Italia, **Dr. Frank Schaich**, Alcatel-Lucent, **Dr. Berna Sayrac**, Orange, **Dr. Gerhard Wunder**, Heinrich Hertz Institute, **Dr. Peter von Wrycza**, Ericsson, **Krystian Safjan**, Nokia Networks, **Dr. Joerg Widmer**, IMDEA Networks, **Dr. Peter Rost**, Nokia Networks, **Dr. Bessem Sayadi**, Alcatel-Lucent, **Dr. Gerd Zimmermann**, Deutsche Telekom

Additional Information / paper submission: Please visit <http://www.5G-ran-design.org>.

### Important Dates:

- Paper submission deadline: **December 4, 2015**
- Acceptance notification: February 21, 2016
- Camera-ready papers: March 13, 2016