

Call for Papers

The 3rd International Workshop on

5G Mobile and Wireless Communication System for 2020 and Beyond (MWC2020)

<https://www.metis2020.com/event/3rd-mwc2020/>

May 11-14, 2015, in conjunction with IEEE VTC 2015 Spring, Glasgow, UK

Scope and Objectives:

The purpose of the workshop is to gather researchers and industry to share views on requirements and technical enablers for the coming 5G mobile and wireless system. These enablers may be components of the protocol stack (PHY, MAC or upper layers), or new architectural models.

It is widely accepted that the future mobile infrastructure will have to cope not only with a quantitative growth of the requirements we are facing today (higher capacity, data rate, number of connected devices) but also with qualitatively new requirements (higher reliability, larger versatility, application domain specific topologies) resulting from a broader scope of application domains to be supported.

In 2020, mobile and wireless traffic volume is expected to increase thousand-fold over 2010 figures. Moreover, an increase in the number of wirelessly connected devices in the tens of billions will have a profound impact on society. Massive machine communication, forming the basis for the Internet of Things, will make our everyday life more efficient, comfortable and safer, through a wide range of applications including traffic safety and medical services. The variety of applications and traffic types originating from or reaching mobile, WLAN, and sensor networks, will be significantly larger than today, and will result in more diverse requirements on services, devices and networks.

To meet the demands beyond 2020, a system that broadens the use of today's wireless networks is needed. Fundamentally new concepts and design approaches are needed, and these must be integrated into systems that provide the necessary flexibility, versatility and scalability at low cost and low energy consumption. This workshop presents a forum for exchange of ideas between all stakeholders.

We invite researchers to submit original papers in the following areas:

- Device-2-device communication
- Machine-Type Communication/Massive Machine Communication
- Ultra-reliable networks and NSPS communication
- Moving networks and Vehicular-to-anything communication
- Ultra-dense deployments
- Millimeter-wave communication
- Network and Massive MIMO
- Radio network architectures including beyond cellular
- Self-organizing networks and distributed features
- Energy efficient networks
- Network coding
- Efficient air interfaces (low signaling overhead, energy consumption,...)
- Interference metrics, measurements and management
- Spectrum measurement and models
- Spectrum use and new spectrum sharing models
- Trust and security
- Advanced channel models for 5G characterization
- Demonstration of 5G systems
- Experimental prototypes and results related to the topics above

Important Dates:

Paper Submission : 17 December, 2014

Author Notification : 26 January, 2015

Final paper submission : 16 February, 2015

Paper Submission:

Papers should follow the 2-column IEEE conference template and not exceed 6 pages (1 additional page is possible for an overlength fee of \$100 due upon paper acceptance), and be submitted through TrackChair (<https://vtc2015sp-wksp.trackchair.com>). Accepted papers will be published in IEEEXplore. At least one author per accepted paper must register at the full workshop rate.

Steering Committee:

Dr. Afif Osseiran, Ericsson, Sweden
Prof. Narcís Cardona, Polytechnic University of Valencia, Spain
Prof. Hans Schotten, University of Kaiserslautern, Germany
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