



IEEE Global Communications
Conference
9-13 December 2018
Abu Dhabi, UAE
Gateway to a Connected World



Call for Papers

IEEE Workshop on channel models and measurements for mmWave bands

In conjunction with The 9th International Workshop on Channel Measurement and Modeling

Workshop Chairs:

- Jianhua Zhang, Beijing University of Posts and Telecommunications (BUPT)
- Mansoor Shafi, Spark New Zealand
- Harsh Tataria, Institute of Electronics Communications and Information Technology (ECIT)

Email: jhzhang@bupt.edu.cn
mansoor.shafi@spark.co.nz
h.tataria@qub.ac.uk

Tel: +86(0)10 61198355

Scope and Motivation:

The emerging 5G (fifth generation) mobile communication system is designed to satisfy the application of ultra-high-definition video, mobile cloud computing, and other high-quality data services. As a key factor in 5G, the mmWave bands with continuous and broad spectra meet the high spectrum requirement in future and make high-speed wireless communication possible. However, mmWave signals with rapid attenuation are more susceptible to blockages than sub-6 GHz and their channel models become more complicated. Even though the latest channel model has already been extended to 100 GHz by 3GPP, rarely papers concern the new modelling components such as oxygen absorption, large bandwidth, large antenna array, spatial consistency. The efforts to characterize and model channel behavior and impairments in order to facilitate design and simulation of wireless systems and development of suitable mitigation strategies have never been more timely or important. Besides, the millimeter wavelength will impact the measurement equipments and methods. It is necessary to verify their rationalities. Therefore, the goal of the workshop is to unveil the latest development on mmWave channel measurement and modeling, including new channel features and application scenarios, channel measurement campaign, channel parameters extracting and modeling, measurement equipment development, etc.

Main Topics of Interest:

We invite original research articles are solicited in, but not limited to, the following areas:

- Novel analytical models & methods
- Signal propagation and attenuation models
- Measurements, experimental studies & prototypes
- Multi-user provisioning, scheduling, handover
- Massive & 3D MIMO channel measurement and modeling
- Signal processing for network beamforming
- Antenna calibration and channel reciprocity
- M2M, D2D and V2V channel measurement and modeling
- Novel mmWave network & system architecture
- Applications for mmWave wireless communication
- Framework on 5G channel model



**IEEE Global Communications
Conference**
9-13 December 2018
Abu Dhabi, UAE
Gateway to a Connected World



Call for Papers
**IEEE Workshop on channel models and measurements for mmWave
bands**
**In conjunction with The 9th International Workshop on Channel
Measurement and Modeling**

Key Dates:

Paper submission deadline: **1 July 2018**

Paper submission deadline extended to: **14 July 2018**

Paper acceptance notification: **15 August 2018**

Camera-Ready: **15 September 2018**

Workshop date: **9 December 2018**

Technical Program Committee:

- Jianhua Zhang, State Key Lab of Networking and Switching Technology, Beijing University of Posts and Telecommunications (BUPT), Beijing, P. R. China.
- Mansoor Shafi, Spark New Zealand, Wellington, New Zealand.
- Harsh Tataria, Institute of Electronics Communications and Information Technology (ECIT), Queen's University Belfast.
- Katsuyuki Haneda, Department of Radio Science and Engineering, Aalto University, Espoo, Finland.
- Shangbin Wu, Samsung R&D Labs, UK.
- Charlie Jianzhong Zhang, Samsung R&D Labs, USA.
- George C. Alexandropoulos, Huawei, France.
- Cheng-Xiang Wang, Institute of Sensors, Signals and Systems, School of Engineering and Physical Sciences, Heriot-Watt University, Edinburgh, U.K.
- Bo Ai, State Key Laboratory of Rail Traffic Control and Safety, Beijing Jiaotong University, Beijing, P. R. China.
- Yang Yang, Shanghai Wireless Research Center, Shanghai, P.R. China.
- Xiongwen Zhao, School of Electrical and Electronic Engineering, North China Electric Power University, Beijing, P. R. China.
- Xuefeng Yin, College of Electronics and Information Engineering, Tongji University, Shanghai, P.R. China.
- Tommi Jämsä Huawei Gothenburg Research Center, Sweden.
- Yi Zheng, CMCC Corporation, Beijing, P. R. China.
- Jianwu Dou, ZTE Corporation, Shanghai, P. R. China.

Workshop Web Pages:

<http://gcwkshps.zjhlab.net/>