

## Workshop Program

### The International Workshop on mmWave Networks— fundamental limits, protocols, and experimental research platforms (mmWave)

27th Annual IEEE International Symposium on Personal, Indoor, and Mobile Radio  
Communications (PIMRC)

Sunday, September 4<sup>th</sup>, 2016

Valencia Congress Centre, Valencia, SPAIN

#### 14:10 – 15:50 Session A

Session Chair: Behnaam Aazhang (Rice University, USA)

**14:10 Outage Probability Analysis of the Millimeter-Wave Relaying Systems**

Nima Eshraghi (University of Tehran, Iran), Behrouz Maham (Nazarbayev University, Kazakhstan), Vahid Shah-Mansouri (University of Tehran, Iran)

**14:35 Optimal Opportunistic Transmissions Over Directional mmWave Channel**

David Ramirez (Rice University, USA), Lei Huang (Huawei Technologies Co., Ltd., P.R. China), Yi Wang, Behnaam Aazhang (Huawei Technologies Co., Ltd., P.R. China, Rice University, USA)

**15:00 Experimental Evaluation of a Novel Fast Beamsteering Algorithm for Link Re-Establishment in mm-Wave Indoor WLANs**

Avishek Patra (RWTH Aachen University, Germany), Ljiljana Simić (RWTH Aachen University, Germany), Marina Petrova (RWTH Aachen University, Germany)

**15:25 Field Experimental Evaluation of Beamtracking and Latency Performance for 5G mmWave Radio Access in Outdoor Mobile Environment**

Shohei Yoshioka (NTT DOCOMO, INC., Japan), Yuki Inoue (NTT DOCOMO, INC., Japan), Satoshi Suyama (NTT DOCOMO, INC., Japan), Yoshihisa Kishiyama (NTT DOCOMO, INC., Japan), Yukihiko Okumura (NTT DOCOMO, INC., Japan), James Kepler (Nokia Networks, USA), Mark Cudak (Nokia Networks, USA)

15:50 – 16:20 Coffee break

16:20 – 18:00 Session B

Session Chairs: J.H. Zhang (Beijing University of Posts and Telecommunications, P.R. China) and Leon Huang (Huawei Technologies Co., Ltd., P. R. China)

**16:20 Effects of Vehicle Vibrations on mm-Wave Channel: Doppler Spread and Correlative Channel Sounding**

Jiri Blumenstein (Brno University of Technology, Czech Republic), Josef Vychodil (Brno University of Technology & BUT Brno, Czech Republic), Martin Pospíšil (Brno University of Technology, Czech Republic), Tomas Mikulasek (Brno University of Technology, Czech Republic), Ales Prokes (Brno University of Technology & Sensor, Information and Communication Systems Research Centre , Czech Republic)

**16:45 Radio Parameter Design for OFDM-based Millimeter-Wave Systems**

Lei Huang (Huawei Technologies Co., Ltd., P.R. China), Yi Wang (Huawei Technologies Co., Ltd., P.R. China), Zhenyu Shi (Huawei Technologies Co., Ltd., P.R. China), Rong Wen (Huawei Technologies Co., Ltd., P.R. China)

**17:10 Delay Characteristics for Directional and Omni-Directional Channel in Indoor Open Office and Shopping Mall Environments at 28 GHz**

Lei Tian (Beijing University of Posts and Telecommunications & Wireless Technology Innovation Institute, P.R. China), Jianhua Zhang (Beijing University of Posts and Telecommunications, P.R. China), Pan Tang (Beijing University of Posts and Telecommunications, P.R. China), Fusheng Huang (Beijing University of Posts and Telecommunications, P.R. China), Yi Zheng (China Mobile, P.R. China)

**17:35 A SAGE Algorithm for Channel Estimation using Signal Eigenvectors for Direction-Scan Sounding**

Luxia Ouyang (Tongji University, P.R. China), Xuefeng Yin (Tongji University, P.R. China)