

**Title of the Invited Plenary Talk at WPMC 2016:
6-100 GHz Research Progress and Challenges for 5G and Future**

Abstract of the Talk:

6-100 GHz has been launched for the future mobile communication in WRC 15 and in this talk, the worldwide 6-100 GHz spectrum allocation, field trials and chipset progress, standards progress are summarized, especially the challenges to 6-100GHz is discussed in order to accelerate its development.

Speaker: Prof. Jianhua Zhang, Beijing University of Posts and Telecommunications, Beijing, China

Short Biography of the Speaker:



Prof. Jianhua Zhang, IEEE senior member. Now she is the Drafting Group (DG) Chairwomen of ITU-R IMT-2020 (5G) channel model and vice-Chairwomen of China IMT-2020 spectrum group. She received her Ph.D. degree in circuit and system from Beijing University of Posts and Telecommunication (BUPT) in 2003 and now is professor of BUPT. She has published more than 100 articles in referred journals and conferences and 40 patents (one received 2016 government Patent Excellence Award). She was awarded "2008 Best Paper" of Journal of Communication and Network. In 2007 and 2013, she received two national novelty awards for her contribution to the research and development of Beyond 3G TDD demo system with 100Mbps@20MHz and 1Gbps@100MHz respectively. In 2009, she received the "second prize for science novelty" from Chinese Communication Standards Association for her contributions to ITU-R 4G (ITU-R M.2135) and 3GPP Relay channel model (3GPP 36.814). From 2012 to 2014, she did the 3 dimensional (3D) channel modeling work and contributed to 3GPP 36.873 and also the member of 3GPP "5G channel model for bands up to 100 GHz", now issued as 3GPP 38.900. Her current research interests include 5G, artificial intelligence, data mining, especially in massive MIMO and millimetre wave channel modelling, channel emulator, OTA test and etc.