

**Title of the Invited Plenary Talk at WPMC 2016:
Recent Developments and Future Challenges of 5G Massive MIMO Channel Models**

Abstract:

This talk will give a comprehensive overview of the existing massive multiple-input multiple-output (MIMO) channel models, including the standardized 5th generation (5G) wireless channel models. Future research challenges in 5G massive MIMO channel models will be addressed as well.

Speaker: Prof. Chengxiang Wang, Heriot-Watt University, Edinburgh, UK

Short Biography of the Speaker:

Prof. Chengxiang Wang (<http://home.eps.hw.ac.uk/~cw46/>)



Prof. Chengxiang Wang received the BSc and MEng degrees in Communication and Information Systems from Shandong University, China, in 1997 and 2000, respectively, and the PhD degree in wireless communications from Aalborg University, Aalborg, Denmark, in 2004.

He has been with Heriot-Watt University, Edinburgh, UK since 2005, and was promoted to a Professor in Wireless Communications in 2011. He was a Research Fellow at the University of Agder, Grimstad, Norway, from 2001-2005, a Visiting Researcher at Siemens AG-Mobile Phones, Munich, Germany, in 2004, and a Research Assistant at Hamburg University of Technology, Hamburg, Germany, from 2000-2001. His current research interests include wireless channel modeling and 5G wireless communication networks. He has published 1 book, 1 book chapter, 120 journal papers, and about 140 conference papers, having attracted over 4870 citations.

Prof. Wang served or is serving as an Editor for 12 international journals including IEEE Transactions on Vehicular Technology (since 2011), IEEE Transactions on Communications (since 2015), and IEEE Transactions on Wireless Communications (2007-2009). He was the leading Guest Editor for IEEE Journal on Selected Areas in Communications, Special Issue on Vehicular Communications and Networks. He is also a Guest Editor for IEEE Journal on Selected Areas in Communications, Special Issue on Spectrum and Energy Efficient Design of Wireless Communication Networks. He served or is serving as a General Chair, TPC Chair, and TPC member for over 80 international conferences. He received 8 Best Paper Awards from IEEE Globecom 2010, IEEE ICCT 2011, ITST 2012, IEEE VTC 2013-Fall, IWCMC 2015, IWCMC 2016, and IEEE/CIC ICC 2016. He is a Fellow of the IET and HEA, and a Senior Member of the IEEE.