



Dr. Taro Eichler

Technology Manager, Rohde & Schwarz, Germany

Bio

Taro Eichler is Technology Manager for Wireless Communication with focus on 5G technologies with a strong interest in the associated vertical markets such as automotive. Prior to joining Rohde & Schwarz in 2007, Taro worked for Intel Corporation in the field of Optical Communications. Previously Taro worked at The University of Tokyo, subsequently joining NTT Basic Research Laboratories on a project in Quantum Optics.

Taro holds a Diploma in Physics from the Technical University of Munich and a PhD in Physics from the University of Bonn, Germany.

Title

Challenges and Techniques for Characterizing Massive MIMO Antenna Systems for 5G

Abstract

One of the key enablers for enhanced Mobile Broadband (eMBB) in 5G wireless communication systems besides using higher signal bandwidths in the millimeter-wave frequency region is the use of massive MIMO with multiple channels and beamforming to increase SNR. However, the high number of antenna elements, limited test interfaces and the high integration with no RF connectors pose a challenge and require over-the-air testing methodologies. In this talk we give an overview of several OTA testing concepts and results from state-of-the-art measurements.