

**IEEE EMC Workshop at the
German Microwave Conference (GeMiC) 2018
Tuesday, March 13, 10:10 – 11:50
Room: K9**

Emerging Topics in Automotive Microwave and EMC Engineering

Abstract

The Automotive Industry has seen a big technological change from primarily mechanically driven innovations to a highly complex electric and electronic system. Electromagnetic compatibility investigations have been playing an important role for many years but were mainly seen as a must-be and often pushed to the end of the product development cycle. Antenna design and RF analysis received more attention already at an early stage of product prototyping, but research and investigations mainly concentrated on installed antenna performance rather than mutual coupling because of the different and well separated frequency bands. With the ever increasing number of antenna systems in the automobile, however, inter-systems and intra-system coupling and RF interference becomes more important and requires closer cooperation between MW & RF and EMC engineers.

Presenters

Thomas Eibert, TU Munich

Current and Future Automobile Antenna Measurements

Christoph Wagner, Rohde & Schwarz

EMC Testing on Vehicles under real Conditions

Matthias Tröscher, CST – Computer Simulation Technology GmbH

Co-site Interference on Cars

Saeed Milady et al., NXP Semiconductors Germany GmbH

Interference: An Example of Esoteric Engineering? - Some Industrial Examples