EMC Professional Talk

DI Dr. techn. Guido Rasek

Valeo eAutomotive

Erlangen, Germany

EMC on HV system level for electric vehicles

Noise currents in high-voltage power trains of electric vehicles place significant strain on the EMC filters used to mitigate conducted and radiated emissions. Filtering targets for high levels emissions must be achieved. The power dissipation caused by the resistive properties of the filter components is a key factor in determining the temperature behavior and lifetime of the filter. A validated numerical EMC model of an electric vehicle power train can be used to complete investigations. Principle outlines of the activities to achieve postulated goals are presented.

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Zoom:	https://ovgu.zoom.us/j/65212681357?pwd=T085Q3k5MUtUL01yaDhXNXkybkIzUT09
Meeting-ID:	**652 1268 1357**
passcode:	**751648**

About the speaker:

Guido Rasek received the Dipl. Ing. degree in electrical engineering from the TH Karlsruhe (today Karlsruhe Institute of Technology, Karlsruhe), Germany, in 1997, and the Dr. techn. degree in electrical engineering from the Vienna University of Technology, Vienna, Austria, in 2008.

He has been with EMCC since 1997 as an EMC Engineer and has been the Head of the EMC and EMP Technologies Group since 1999. From 2014 to 2018, he has been a Senior Expert for EMC of power electronics with the Robert Bosch GmbH. Since 2018 he is with the power division of Valeo at the Valeo eAutomotive GmbH in Erlangen Germany (formerly Valeo Siemens). There he is currently employed as Master Expert for EMC.

His current research interests include EMC with focus to vehicle electrification and aircraft industry. Dr. Rasek received the IEEE Transactions on Electromagnetic Compatibility Best Paper Award in 2015.

Organization:

Dr.-Ing. Miroslav Kotzev, Rohde & Schwarz GmbH & Co. KG
IEEE German EMC Chapter - Coordinator Technical Teleconferences