



20th International Zurich Symposium on Electromagnetic Compatibility

WS-5 on Friday, 16 January, 8:00 – 12:00

Title workshop	Electromagnetic Modeling of Distributed Automotive Systems
Organizer's name	Florian Krug
Organizer's affiliation	Siemens, Germany

Abstract: Time-efficient E-/H-field simulation methods for distributed structures are essential to develop next generation electronic automotive systems. The workshop gives an overview of modeling and simulating of distributed systems with a focus on novel and time-efficient simulation methods. There is a mix of presentations about real-live experiences and novel methods for efficiently solving such problems.

Programme

8:00-8:30 Dr. Krug, Siemens, "Overview on Simulation-Tools for electromagnetic Modeling of Distributed Systems"

8:30-9:00 Prof. Russer, Dr. Siart, University Munich, "Time-Domain Full-Wave Modeling of Electromagnetic Structures in Automotive Systems"

9:00-9:30 Dr. Braun, University Munich, "A multisource Model to estimate the radiated Emissions of Systems According to the EMC Standards"

9:30-10:00 Break

10:00-10:30 Prof. Weigel, University Erlangen, M. Troescher, Simlab, "On the Design Flow for Automotive EMC"

10:30-11:00 Dr. Ehmann, Dr. Duxbury, CST, "EM Simulation of Selected Automotive Applications"

11:00-11:30 Dr. Schick, Dr. Jakobus, FEKO, "Numerical Examination of Typical Electromagnetic Problems in the Automotive Area"

11:30-12:00 Prof. Eibert, University Stuttgart, "Inverse Equivalent Current Methods for Radiation Modeling and Diagnostics"