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Current and Future Challenges in Automotive EMC

This presentation will focus on the numerous technical challenges awaiting the automotive industry in the near future. In this context, the speaker will describe the most important topics which raise serious and sometimes new EMC issues: battery electric vehicles (EVs) and full-hybrid electric vehicles (HEVs), mild-hybrid vehicles including a 48V power network, EVs and HEVs in the situation of charging mode, the special case of wireless inductive charging of EVs and HEVs, new materials and especially composite materials, new Digital Audio Broadcasting (DAB) reception, invehicle high data rate wire transmission links, wireless communication systems, invehicle wireless charging of mobile objects, and finally Advanced Driver Assistance Systems (ADAS) which are elementary bricks of future autonomous cars.