

MARATHON EMC 2021

Binational Edition

Part 1: Poland - Germany, 13th April 2021

MARATHON EMC2021 Binational Edition is continuation of the series of on-line courses initiated by the IEEE EMC-S PL Board of the Electromagnetic Compatibility Society Polish Chapter of the IEEE (USA)

Main theme: Alternative and out-of-standard EMC testing

AGENDA

Topic I	Radiated emission and immunity of small electronic devices in GTEM cells
Date	13th April 2021, 9:30 - 10:45
Description	The results of statistical approach to Uniform Field Area (UFA) in GTEMs in accordance with EN 61000-4-20 will be presented. The basics of emission measurement in comparison to anechoic chambers will be mentioned.
Speaker	Jan Sroka Warsaw University of Technology, Faculty of Electrical Engineering, Institute of Theoretical Electrotechnics and Information and Measurement Systems Department of High Voltage and Electromagnetic Compatibility
Topic II	EMC in reverberation chambers
Date	13th April 2021, 11:00 - 12:15
Description	The talk explains basic properties of reverberation chambers and presents some exemplary practical chambers with their parameters. The normative chamber validation as well as emission measurements and immunity tests are briefly explained. Finally, advantages and disadvantages are discussed.
Speaker	Mathias Magdowski Otto von Guericke University Magdeburg, Institute for Medical Technics
Topic III	ESD in Automotive In-Vehicle Networks
Date	13th April 2021, 12:30 - 13:45
Description	New trends in automotive engineering such as electrification and autonomous driving are big challenges for automotive networks. With increasing amount of data, there is no room for failure in such networks. In a rough automotive environment, Electrostatic Discharge (ESD) is a very importance event which can cause a malfunction and irreversible damage of the entire system. In this teleconference, it will be shown how the ESD challenges can be managed for dedicated automotive applications such as LIN, CAN, Ethernet and High-Speed Multimedia links. It will be discussed how an external ESD protection device can increase the level the system level robustness and what are the key selection parameter for an ESD protection device to fit for the automotive requirements.
Speaker	Andreas Hardock Nexperia - Application Marketing Manager
Moderator	Krzysztof Sieczkarek Łukasiewicz Research Network - Institute of Logistics and Warehousing Chairman of IEEE EMC-S PL

Event organized by IEEE EMC-S PL in co-operation with IEEE EMC-S DE

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