

MARATHON EMC 2021

Binational Edition

Part 4: Poland - Spain, 10th June 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: More details on conducted emission in EMC

AGENDA

Topic I	Time-domain interference measurement and evaluation methods in Electromagnetic Compatibility
Date	10th June 2021, 9:30 - 10:15
Description	In this presentation, it will be shown that it is feasible to use a time-domain system based on the use of an oscilloscope to obtain EMI emissions measurements according to EMC standards. The time-domain methodology will be described from the acquisition stage to the different interference post-processing stages to provide results in compliance with CISPR16-1-1.
Speaker	Marc Pous Researcher at Universitat Politècnica de Catalunya
Topic II	Using an FFT EMI-Modal Receiver to optimize your EUT power line filter
Date	10th June 2021, 10:30 - 11:15
Description	Nowadays measurements of conducted emission are carried out with instruments that can only measure the emissions coming from line and neutral terminals but are not capable of separating the modal interference, common mode (CM) and differential mode (DM). Worldwide legislation, such as the European EMC Directive, sets mandatory interference limits that must be met. In this Workshop we will show how easy is to distinguish between the CM and DM interference, using an EMI-Modal Receiver, and how to properly use this information in the design of the Power Line Filter.
Speaker	Marco Bosi Engineer at WAVECONTROL / PhD Researcher at University of Bologna

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Topic III	How to write your own software for automation of conducted emission measurement.
Date	10th June 2021, 11:30 - 12:15
Description	During the workshop examples of original computer programs that automate the measurement of conducted emission on the LabView environment will be described. The indicated algorithms of proceeding coming directly from the standards and own methods of frequency selection will be shown. Examples of communication between the measurement receiver and computer using GPIB and /or LAN with automatic switching of the artificial network will be presented.
Speaker	Bartłomiej Nagórny, Krzysztof Sieczkarek Łukasiewicz Research Network - Institute of Logistics and Warehousing
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 ES

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