IEEE Denmark EMC Chapter

EMC Professional Talk

Jan Meyer
PhD
Leader of Power Quality research group
Technische Universität Dresden
Fakultät Elektrotechnik und Informationstechnik
Dresden, Germany

Needs and challenges related to a normative method for grid measurements in the frequency range 2-150 kHz

Advances in power electronics, increasing share of renewables in the energy system and e-mobility cause an increase of disturbances in the frequency range 2-150 kHz, also known as supraharmonics. A rigorous, credible and agreed measurement framework is essential to evaluate electromagnetic compatibility (EMC) in this frequency range. While a normative method exists for measuring equipment emission in the laboratory, no normative method exists yet for the measurement of supraharmonic disturbance levels in the grid. After a brief introduction into the topic and the present status quo of standardization, this lecture will illustrate the need for a normative grid measurement method and compares several proposals presently under discussion in IEC SC77A WG9 for the next edition of IEC 61000-4-30. The pros and cons of the methods are explained and complemented by several practical measurement examples.

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Zoom: https://aaudk.zoom.us/j/67781542456

Meeting ID: 677 8154 2456 Passcode: EMCDenmark

About the speaker:
Dr Jan Meyer received the Dipl.-Ing. and Ph.D. degrees in electrical power engineering as well as the postdoctoral qualification in Power Quality from Technische Universitaet Dresden, Dresden, Germany, in 1994, 2004 and 2018 respectively. He is currently with Technische Universität Dresden as Senior Lecturer and Leader of the Power Quality Research Team.

His research interests include network disturbances and their assessment, especially for distortion below and above 2 kHz, accuracy of Power Quality measurements as well as analysis of big data amounts from Power Quality measurement campaigns. He is member of several national and international working groups on EMC standardization, several CIGRE working groups and the CIRED technical committee. He gives regular speeches on recent topics in the field of Power Quality and is organizer of seminars in the field of network disturbances and its assessment.

Organization:
Associate Prof. Pooya Davari, AAU Energy, Aalborg University
EMC Chapter Chair, IEEE Denmark EMC Chapter
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