

E-Mobility – The Silent Revolution!?

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Invited: „Development of New Sounds for Electric Vehicles “

Electric vehicle become more and more popular worldwide. A strong increase of new registered electric vehicles is expected. The interior and exterior sounds of electric vehicles will become an important aspect for sound engineering considering the psychoacoustics: what sounds do customers prefer, what kind of sounds are important for customers, how to consider the typical acoustical orientation known from combustion noises, should it be possible, that a customer can actively/individually influence the character of the vehicle interior noise, which new sounds arise and must be avoided or emphasized, how to design vehicle exterior noise (e. g. pedestrian protection)? Based on the ISO 12913 Soundscape standard the following topics will be discussed: concepts for the development of sounds, applying jury testing to predict human reactions towards the noise or sound of new vehicle types, application of psychoacoustics analysis and simulation of warning signals in complex traffic scenarios to check their applicability and their annoyance.

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