

Di. 15:40 3F

Soundscapes

Soundscape in Restaurants and the Lombard Effect

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From the acoustical point of view, restaurants can be considered as multisource environments with the sound dominantly originating from human voices. The soundscape in restaurants therefore strongly depends on the amount and behaviour of the people present. This article investigates the influence of the Lombard effect on the Soundscape in a restaurant for a wide variation of activity levels. The analysis focuses particularly on determining the dependence of the acoustical situation on the architectural properties of the room and the number of people and other sound sources present.

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Analysis of perception, adaptive design and evaluation of warning signals in different soundscapesK.S. Voigt^a, B. Schulte-Fortkamp^a, D. Botteldooren^b und B. De Coensel^b^a*TU Berlin, Institut für Strömungsmechanik und Techn. Akustik*; ^b*Ghent University, Dep. Information Technology*

Current work focuses on the perception of signal tones within the field of the reduced sound propagation from fully-electric/hybrid drives of vehicles and its inaudibility at low speeds. The essential question is about finding the crucial parameters which shift a sound into a remarking- or warning-signal for designing signals to increase the transport safety but regarding the soundscape and affecting it just as much as it is required. Therefore it is necessary to understand warning sounds from their origins. Analysing evolutionary and nowadays warning-sounds will open the acoustical gap between the informative noises of drive, tyres and wind of a vehicle and its buzzer. These parameters enable the development of an adaptive system which considers the driving speed as well as the surrounding acoustical environment to avoid dispensable sound. Based on this gain of knowledge new created sounds shall be tested on its noticeability and the subjective evaluation under the influence of varied soundscapes and hearings.

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