



Environmental noise metrics from a soundscape perspective

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Abstract

There is decades-long tradition of studying acoustic quantities and metrics for environment noise assessment in the field of noise control engineering and research. Several indicators were found and applied for the classification of environmental noise. But, today there is a common consent about the insufficiency of these indicators and the necessity to consider further data for a comprehensive understanding of environmental noise perception. In particular, the soundscape approach provides new insights into the complex process of environmental noise perception and evaluation and known indicators and metrics have to be modified, extended or even discarded.

The paper will focus on acoustical metrics for environmental noise description and their value from the soundscape perspective will be reviewed. Besides established acoustical indicators further metrics will be tested and discussed.

Keywords: soundscape, metrics, indicators, psychoacoustics

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