

Forum Acusticum

07. – 11.12.2020

Place:

Lyon, Frankreich

Title:

Application of Psychoacoustic Tonality for Sound Engineering

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Abstract:

The perception of tonal sounds is one of the most important psychoacoustic sensations for sound engineering. In the past, a lot of work has been carried out to automatically quantify tonal sound events. The psychoacoustic tonality is a method for the quantification of tonal sounds, which is based on a hearing model which emulates the processing of human hearing. It was standardized in the 15th Edition of the ECMA-74 standard and updated in the 17th Edition.

In this paper, the application of the psychoacoustic tonality according to the ECMA-74 standard is described. For several examples, it is shown how the psychoacoustic tonality can be used for sound engineering and how the results can be interpreted.