Earconsampler
- A Tool for Designing Emotional Auditory Driver-Vehicle Interfaces

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Desired emotional response?

Emotion prediction

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Today, a multitude of different warning and information sounds are used in Driver Vehicle Interfaces (DVIs) to support visual information, reduce reaction time and improve attention direction. These must be optimized with regards to behavioral response, general quality impression, and annoyance to be effective. Earconsampler is a simple tool for designing and modifying auditory driver-vehicle interfaces. It allows for creating melodic patterns of wav-snippets and easy adjustment of parameters such as tempo and pitch. It also contains an analysis section where sound quality parameters, urgency and emotional response to the sound is calculated / predicted, so that the user directly can see how a certain parameter affects perception and emotional response.

Emotions are useful in both the process of designing DVI sounds and when evaluating DVIs since they are central for our perceptual and behavioural response to sound. Emotion psychology has a rich flora of instruments to measure emotion. Measurement of emotion may also be used as a proxy measure of behavior.