



*The relevance of multimodal interaction for assessing the soundscape based emotions*

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Humans respond to their surroundings in different ways, with emotion being one of the most important forms. In particular, diverse effects of acoustic environments on human beings are studied in detail focusing over decades on adverse and harmful effects of noise only, but recently increasingly shifting to research on health promoting phenomena as well. In this context, after decades of neglecting the interplay between senses, the soundscape concept emphasizes the role of multisensory integration in the perception process and how the environment affects its inhabitant. It demands a more holistic perspective. This led to increased research efforts to examine the affective, emotional processing of acoustic stimuli in different contexts and environments respectively. In particular, research on basic and complex emotion dimensions elicited by acoustic environments gains in significance. The paper will present recent research activities into the importance of soundscape elicited emotions affected by multimodal interactions and how those research can contribute to improved urban soundscape design promoting well-being and maybe even health.