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Music, Motion and Emotion: Motion Manipulation on Music Induced Emotions

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### Abstract

Recent studies have shown that human is capable of relating emotions with music. Listening to music is proven to be able to activate sub-cortical regions, which are related to emotions, and these brain regions synchronize with our motor control system. This paper shows the study of the investigation on the emotional influences of music and aims to reveal the role that the motor control plays in the information processing process.  $N = 42$  participants were divided into stationary and motion groups, in which they performed selection tasks on emotional faces after listening to 15 s of happy or fearful music. Significant congruency effect was found in the emotion-unrelated task, which means the subjects respond quicker in gender categorization when the music and the emotional face had the same affect than when they were of opposite affect. The rest of the results however do not show statistical significance. These results show that affective priming by music can influence the immediate behavior even if emotion is not an explicit goal of information processing. Further studies on the impact of motor may shed some light in proving its effect on emotions when listening to music.