

Abstract

Judgement of personality based on recordings of dance and gait (obtained using Motion Capture)

This study raises the question if it is possible to assess personality traits based on body movement while dancing and walking if we isolate movement from other non-verbal cues. The theoretical part of the study lists theoretical concepts associated with this question and summarizes previous research on the subject.

The main part of this study is empirical research: the movement of 21 women was filmed using Motion Capture technology which captures human movement by recording the coordinates of key segments of the body. A virtual female character was used to re-create the movement of the research participants. The resulting footage was then presented to 187 raters, who scored segments of it on two sets of personality scales. The comparison of the raters' scores and self-assessed personality of the participant is subject to the analytical part of this study.

The results showed several correlations between assessments of personality traits and self-assessed personality traits, but those were never the same traits (i. e. extraversion was never recognized as extraversion, but possibly manifested itself through ratings of other traits). We also found several more general factors on which the raters' assessments of personality were probably based.