

Musical Education and Rhythm Understanding

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KEYWORDS Musical Training. Rhythm Perception. Musical Ear. Beat Detection. Beat Tracking

ABSTRACT Previous researches have proved that music education ignites brain activity. The paper shows the relation between musical education taken before and rhythm comprehending performance as a brain activity, the research was made on Turkish Folk Dancers. In the present research, -total ten participants (8 participants from *Hoy-Tur Folk Dance Ensemble* and 2 participants from *Karagöz Folk Dance Ensemble*)- five participants who have not been musical-trained and five dancers who have been musical trained were included. Each participant was asked to repeat the sample rhythm that had been recorded before. The developed software that is based on beat tracking on energy flux of audio signals algorithm compared participants' rhythms and sample rhythm with respect to their energy and timing rate and informed that musical-trained dancers are more successful than non-trained ones with about 84% (percent) and 82% (percent) rates respectively.