

عنوان مقاله:

Biomechanical evaluation of displacement of the dominant lower extremities during gait relative to the local anatomical coordinates of the pelvis

محل انتشار:

کنفرانس بین المللی تحلیل حرکت (سال: 1399)

تعداد صفحات اصل مقاله: 2

نویسندگان:

Ahmadreza Nazari - *Department of Biomedical engineering Islamic azad university, science and research branch, Tehran, Iran*

Farhad Tabatabai Ghomsheh - *Pediatric Neurorehabilitation Research Center, University of social Welfare and Rehabilitation Sciences, Tehran, Iran*

Ali Tanbakoosaz - *Department of Biomedical engineering, Islamic azad university, Abhar Branch, Abhar, Iran*

خلاصه مقاله:

The aim of this paper is to present a new method for kinematic analysis of human movements, especially walking. This study uses video imaging of ten healthy men walking and kinematic analysis of their movements using relative coordinates attached to the body. Joint range of motion is reported based on this pattern. This method directly measures and provides designers with the quantities needed for local biomechanical assessments of joints and the design of mobile equipment for the lower extremities.

کلمات کلیدی:

relative motion, anatomical joint axes, kinematic analysis, rotation axis, coordinate system

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