

ABSTRACT

METHOD AND SYSTEM FOR DETERMINING POSTURAL BALANCE OF A PERSON

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A method and system for determining postural balance of the person is provided. The disclosure provides a single limb stance body balance analysis system which will aid medical practitioners to analyze crucial factor for fall risk minimization, injury prevention, fitness and rehabilitation. Skeleton data was captured using Kinect. Two parameters vibration-jitter and force per unit mass (FPUM) are derived for each body part to assess postural stability during SLS. Further, the vibration and force imposed on each joint a first balance score was quantified. A first balance score and a second balance are also calculated by combining vibration index and SLS duration to indicate the postural balance of the person. The vibration index is computed from the vibration profile associated different body segments.

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[Abstract to be published with Fig. 1]