

Title (en)

MOTION TRACKING AND ANALYSIS APPARATUS AND METHOD AND SYSTEM IMPLEMENTATIONS THEREOF

Title (de)

BEWEGUNGSVERFOLGUNGS- UND -ANALYSEVORRICHTUNG UND VERFAHRENS- UND SYSTEMIMPLEMENTATIONEN DAVON

Title (fr)

APPAREIL DE SUIVI ET D'ANALYSE DE MOUVEMENTS ET MISES EN OEUVRE DE PROCEDES ET DE SYSTEMES ASSOCIES

Publication

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Application

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Abstract (en)

[origin: WO2005113079A2] An orientation and position tracking system and method in three-dimensional space and over a period of time utilizing multiple inertial and other sensors for determining motion parameters to measure orientation and position of a moveable object. The sensors, for example vibrational and angular velocity sensors, generate signals characterizing the motion of the moveable object. The information is received by a data acquisition system and processed by a microcontroller. The data is then transmitted to an external data reception system (locally based or a global network), preferably via wireless communication. The information can then be displayed and presented to the user through a variety of means including audio, visual, and tactile. According to various embodiments, the present invention provides for a motion tracking apparatus and method for implementation in motion systems including systems to teach motion to a group and for body motion capture and analysis systems.

IPC 8 full level

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