

Title (en)

SYSTEMS AND METHODS FOR COMPUTER RECOGNITION OF 3D GESTURE MOVEMENTS

Title (de)

SYSTEME UND VERFAHREN ZUR COMPUTERERKENNUNG VON 3D-GESTENBEWEGUNGEN

Title (fr)

SYSTÈMES ET PROCÉDÉS DE RECONNAISSANCE INFORMATIQUE DE MOUVEMENTS DE GESTES 3D

Publication

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Application

EP 22721841 A 20220330

Priority

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Abstract (en)

[origin: WO202208168A1] Systems and methods described herein enable automated motion recognition by receiving a time-series of images depicting a subject at a plurality of time points. For each image in the time-series of images, an orientation key-point associated with a section of a body part of the subject are predicted via a neural network detector, a three-axis joint rotation associated with the section of the body part is computed based on the orientation key-point associated with the body part and a joint key -point associated with the body part, and features are generated including at least one of: the orientation key-point, the joint key-point, or the three-axis joint rotation. A motion performed by the subject is predicted via a motion recognition machine learning model based on the features of each image in the time-series of images, and an operation is executed in response to the motion.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 202208168A1

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