

Title (en)
METHOD AND SYSTEM FOR LOCATING AND RECONSTRUCTING IN REAL TIME THE POSTURE OF A MOVING OBJECT USING EMBEDDED SENSORS

Title (de)
VERFAHREN UND SYSTEM ZUR LOKALISIERUNG UND REKONSTRUKTION DER HALTUNG EINES BEWEGTEN OBJEKTS IN ECHTZEIT MIT EINGEBETTETEN SENSOREN

Title (fr)
PROCÉDÉ ET SYSTÈME POUR LA LOCALISATION ET LA RECONSTRUCTION EN TEMPS RÉEL DE LA POSTURE D'UN OBJET MOUVANT À L'AIDE DE CAPTEURS EMBARQUÉS

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Application
EP 17748526 A 20170710

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Abstract (en)
[origin: WO2018011498A1] The invention relates to a system for reproducing the movement of an object by means of an articulated structure, which comprises an optical sensor (C0) and relative movement sensors (C1-C4) attached to the object, and a unit (20) for processing measurements made by the sensors (C0, C1-C4). The unit comprises a module (21) giving the absolute location of each segment of the structure in a reference frame, said module utilising the absolute location ($\{R_{a0,p a 0}\}, \{R_{ai,p ai}\}$) of each sensor. The unit further comprises: - an image processing module (22) for determining the absolute location ($\{R_{a0,p a 0}\}$) of the optical sensor (C0) in the reference frame from a sequence of images (D0) acquired by the optical sensor, - a module (24) for determining the relative location ($\{R_{0i,p 0i}\}$) of each relative movement sensor (C1-C4) in relation to the optical sensor, from the measurements made by the sensors, - a module (23) for determining the absolute location ($\{R_{ai,p ai}\}$) of each relative movement sensor (C1-C4), from the absolute location of the optical sensor and the relative location of each relative movement sensor.

IPC 8 full level
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Citation (search report)
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