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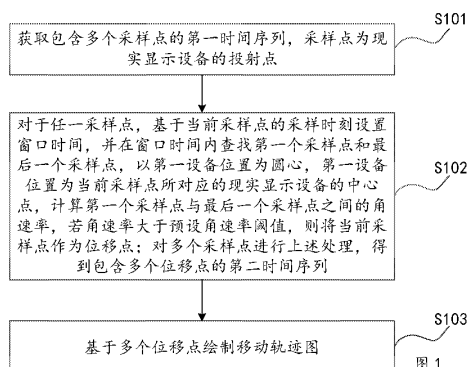
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(54) Title: TIME-SPACE MOVEMENT TRACK ACQUISITION AND GENERATION METHOD AND APPARATUS, DEVICE, SYSTEM, AND STORAGE MEDIUM

(54) 发明名称: 时空行为轨迹采集、生成方法、装置、设备、系统及存储介质



- S101 Acquire a first time series containing multiple sampling points, where the sampling points are projection points of a reality display device
- S102 For any sampling point, set window time on the basis of the sampling moment of a current sampling point, search for the first sampling point and the last sampling point in the window time, take a first position which is a center point of the reality display device corresponding to the current sampling point as a circle center, calculate the angular rate between the first sampling point and the last sampling point, use the current sampling point as a displacement point if the angular rate is greater than a preset angular rate threshold, and execute the above-mentioned process with respect to the multiple sampling points to obtain a second time series containing multiple displacement points
- S103 Draw a movement track plot on the basis of the multiple displacement points

(57) Abstract: The present invention relates to a time-space movement track acquisition and generation method and apparatus, a device, a system and a storage medium. The method comprises: obtaining a first time series containing multiple sampling points, where the sampling points are projection points of a reality display device; for any sampling point, setting window time on the basis of the sampling moment of a current sampling point, searching for the first sampling point and the last sampling point in the window time, taking a first position which is a center point of the reality display device corresponding to the current sampling point as a circle center, calculating the angular rate between the first sampling point and the last sampling point, and using the current sampling point as a displacement point if the angular rate is greater than a preset angular rate threshold; executing the above-mentioned process with respect to the multiple sampling points to obtain a second time series containing multiple displacement points; and drawing a movement track plot on the basis of the second time series. The present application can comprehensively, fully and systematically record time and space information of human body movement in a virtual reality or a hybrid reality setting.

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IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT,
RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI,
CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG)。

本国际公布：

— 包括国际检索报告(条约第21条(3))。

(57) 摘要：本申请涉及一种时空行为轨迹采集、生成方法、装置、设备、系统及存储介质，其方法包括：获取包含多个采样点的第一时间序列，采样点为现实显示设备的投射点；对于任一采样点，基于当前采样点的采样时刻设置窗口时间，并在窗口时间内查找第一个采样点和最后一个采样点，以第一位置为圆心，第一位置为当前采样点所对应的现实显示设备的中心点，计算第一个采样点与最后一个采样点之间的角速率，若角速率大于预设角速率阈值，则将当前采样点作为位移点；对多个采样点执行上述处理，得到包含多个位移点的第二时间序列；基于第二时间序列绘制移动轨迹图。本申请可实现在虚拟现实或混合现实场景中人体移动的时间与空间信息全面、完整、系统的记录。