

ABSTRACT

METHOD, SYSTEM AND ELECTRICITY DEVICE FOR DISPLAYING MIXED REALITY (MR) SCENES

A method for displaying MR (Mixed Reality) scenes is performed as follows. A point cloud data of a real-world scene is obtained. A plurality of physical markers are provided within the real-world scene and have a three-dimensional structure with an uneven surface. Each of the plurality of physical markers is identified through a classification algorithm. a pose and a position of each of the plurality of physical markers, as well as a relative relationship between the plurality of physical markers are obtained through point cloud registration. A size of a virtual content, a pose of the virtual content and a position of the virtual content are adjusted. A virtual marker within the virtual content is aligned with the plurality of physical markers through point cloud registration, so as to achieve an alignment of the virtual content on a surface of a physical object.

Figure 1