

ABSTRACT

Immersal SDK is a visual placement and spatial mapping system that can combine real world and digital content by enabling devices to position themselves in the real world. The Immersal SDK can make the device know the exact orientation in the real world without the need for a QR code as a marker because it uses the environment itself as a marker.

Navigation system is a device that has the ability to know the position or position and direction of travel. Navigation systems can guide directions on the way from a place to a destination. Current navigation systems use Global Positioning Satellite (GPS) technology which provides position information digitally.

In some hospitals, room instructions still use hanging signboards. According to the results of interviews that we conducted, room instructions in the form of room signs were less effective in searching for rooms in the hospital.

From the above conditions, the author provides a solution to help hospital visitors in the form of a navigation system that utilizes AR (Augmented Reality) technology. This system requires a marker in the form of taking pictures in the area of the road to the rooms that are frequently visited by visitors in the hospital (mapping area) using immersal. So that the navigation system using AR technology and this immersal method can help users find the room they are looking for faster using the user's smartphone screen.

Keywords: Immersal, Navigation System, Augmented Reality (AR).