

ABSTRACT

Disclosed a system and a method for creating a 2.5-dimensional model of an environment. The system includes an imaging device configured to capture a first set of images, a second set of images and a third set of images from three different regions of the environment and a processing unit communicably coupled to the imaging device. The processing unit is configured to receive the first, the second and the third set of images; process the received sets of images to obtain a first image sphere, a second image sphere and a third image sphere; determine centres of first, second and third image spheres; orient at least one of the first, the second and the third image sphere about its centre; process the oriented first, second and third image sphere, to obtain a composite image environment and process the composite image environment to create the 2.5-dimensional model of the environment.

FIG. 2