ABSTRACT

An in-vehicle virtual scene interaction method and apparatus, and an in-vehicle virtual scene interaction system are provided. The method includes: in response to detecting manipulation on a vehicle, acquiring manipulation sensing information for sensing a manipulation state of the vehicle; generating latent action information of the vehicle based on the manipulation sensing information; inputting at least one historical video frame in a target virtual scene and the latent action information into a pre-trained generative world model, to obtain a predicted video frame in the target virtual scene through the generative world model; and displaying the predicted video frame on the vehicle. It achieves that the virtual scene displayed on the vehicle is associated with the intelligent cockpit hardware of the vehicle, and video frames matched with the manipulation state are dynamically generated. A user can engage in immersive interaction within virtual scenes by manipulating the intelligent cockpit hardware.

(FIG. 1)