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CREATION OF DIGITAL NOTES OF THE VEHICLE ENVIRONMENT THROUGH GESTURE CONTROL

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CREATION OF DIGITAL NOTES OF THE VEHICLE ENVIRONMENT THROUGH GESTURE CONTROL

Technical Task:

The technical task involves the marking of objects outside the vehicle while driving in order to save them as a note. This should happen without the use of additional equipment.

Initial Situation:

The current state of the art includes the gesture control of infotainment, eye tracking, cameras to record the vehicle environment and the ability to take photos or notes of the vehicle environment from the vehicle using smartphones.

The disadvantage of this current state is that no direct interaction from the vehicle with the environment is possible, as an extra device is needed, for example, to create a note.

Solution:

This invention disclosure describes the possibility of taking digital notes of the vehicle environment from the inside the vehicle.

Via finger gesture (show, cross, border, etc.) the occupant can mark an object or place of interest outside the vehicle, e.g. an interesting shop or restaurant, while driving by and then save it as a note in the vehicle or on your smartphone (see Figure 1). The note can consist of a photo of the object, the geo-position, time and date or a voice input. Furthermore, the note can also be enriched by online information, such as the website of a restaurant, reviews, etc. In addition, the note can also be extended by voice input, for example, „Nice restaurant, we could go here this evening.“. The note would then be saved in the vehicle and in the smartphone. The user could then send it to friends or share them on social networks (see figures 1 and 2). Furthermore, the vehicle or smartphone can inform the user when passing by the noted object at a later time. A combination of eye-tracking and gesture recognition is used to determine the object marked by the user. The object is determined by the combination of viewing direction, field of view and hand gesture.

It is also possible to save the note in the the Augmented Reality navigation and to mark and highlight it.

Figure 1



Figure 1. Gesture to mark the object that needs to be saved as a note.

Figure 2



Figure 2. Saved note with date, picture, info, and recorded voice message.