

Development and Acceptance Study of Remote Controlled Parking Assist System

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KEY WORDS: Human engineering, Human interface, Driving support, Remote Control, Parking Assist [C2]

A new remote controlled parking assist system (Fig.1) was developed which helped the driver move the vehicle from outside of it, so they could get off with their luggage before parking or get on at an open area after exiting the vehicle from a parking space (Fig.2). Unlike parking with the steering wheel, the brake pedal and the gas pedal, they use the remote controller combined with the key fob via parking, driver acceptance was studied from the viewpoint of trustworthiness and understandability using the test vehicle with the system (Fig.3). The trustworthiness depicted the growth from the initial condition to the stable condition with the understanding of the system through the various scenes (Fig.4). They showed the process of the driver acceptance to the system.

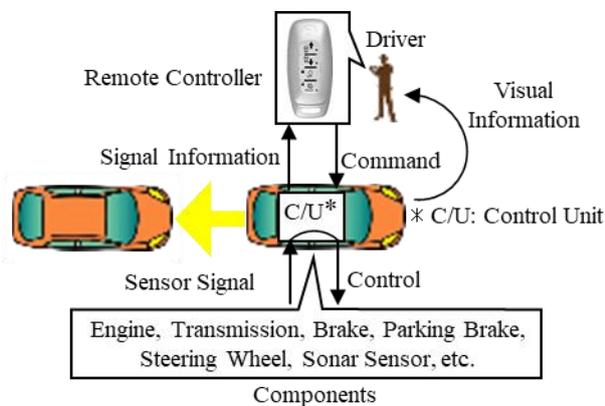


Fig.1 Concept of Remote Controlled Parking Assist System

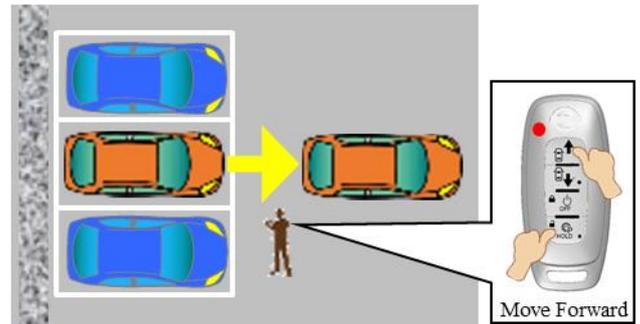


Fig.2 Typical Use Cases of the Remote Controlled Parking Assist System



Fig.3 A Scene of the Acceptance Test

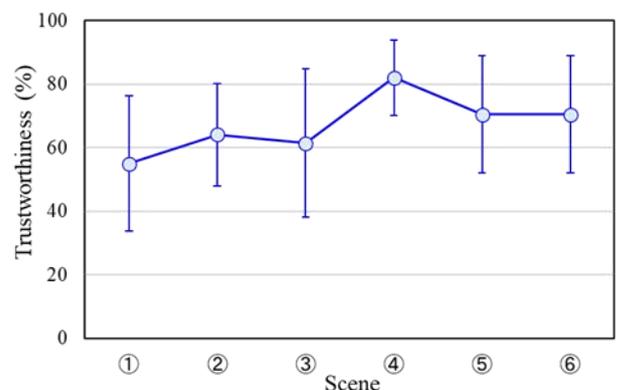


Fig.4 Trustworthiness