pieDrive – Driving by Swiping

Missing costumer acceptance regarding autonomous driving? Semi-automated driving as acceptance-winner!

The pieDrive Head-up Display

Status quo
In modern cars there is a great variety of assistance systems as blind-spot warning, cruise control system or parking aid to provide support to drivers in steering the vehicle safely. Due to these systems, driving a car becomes more and more complex. Each assistance system requires input, shows certain results and has certain limits the driver has to know. Sometimes this can confuse the driver and lead to dangerous situations. Furthermore general acceptance for autonomous driving is still low.

Our technology: pieDrive
pieDrive combines the functionalities of several assistance systems. The relevant information is combined and presented in a single head up display. Decisions for certain driving manoeuvres can be made with a finger swipe on an separate control element (e.g. touchpad, multi-function control knob.).

Benefits
- Handling is fast to learn due to simple and intuitive user interface.
- Driving manoeuvres are foreseeable at any time.
- Switching between assisted and manual driving control is always possible.

Current stage of development
Successful demonstrator-based validation of user-friendliness and functionality.

Application possibilities
The technology is relevant for manufacturers of cars or utility vehicles, who want to offer their customers a simple and intuitive way to control their vehicles semi-automatically to use the full benefits of automation.

Intellectual property situation
Technische Universität Darmstadt has granted patents in Europe.

Commercialization opportunities
We are looking for industry partners who are interested in using the technology. If there is any demand for further development of the technology regarding implementation in products, a close cooperation between the industry partner and Technische Universität Darmstadt is possible.

For more information visit: www.piedrive.de

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