

Novice drivers and new driver support technologies: Potentials of simulator-based training

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The number of cars equipped with new driver support technology is increasing so that skills to use these systems are becoming more important. As relevant skills are difficult to train on the road, simulator-based novice driver training comes into view as an option to train the use of driver support systems. A conceptual analysis elaborates the specific needs of novice drivers to train the use of driver support systems by applying the 'Goals for Driver Education' framework (Hatakka et al., 2002). The effects of new technologies on the different levels of the driving task are described in order to identify ways to use driving simulation to familiarize novice drivers with the corresponding changes of the driver-vehicle-environment system. The potential of simulator-based novice driver training to respond to the identified needs is discussed using the TRAINER project as case study.