

Virtual Reality Driving Simulators for Drivers Training

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Abstract

Nowadays, Virtual reality is a feasible solution to be used for the purposes of the driving task. VR can mainly have an impact on the driving procedure through the Virtual Reality Driving Simulators (VRDS). The VRDS are preferable to all the other types of driving simulators, since they can be used for assessing and training a “mean” driver, providing a novice driver with confidence, rehabilitating the disabled driver and re-training and educating the elderly and training for emergency vehicle operations and procedures, assessment, licensing, driver education, and research. The VRDS can achieve all the aforementioned due to a variety of potentials and functionalities. The main reason, however, is that VRDS provide a safe driving environment for the trainer as well as the trainee. While a VRDS is not a substitute for the real world, it can be considered as a tool to make the driver feel like driving into the real world's driving environment.