Verification of the Effect of the Hazard-Perception Training Tool for Drivers Ported from a Tablet Device to a Smartphone

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Abstract : In a previous study, we developed a hazard-perception training tool for drivers using a tablet device and verified its effectiveness. Accident movies recorded by drive recorders were separated into scenes before and after the collision. The scene before the collision is presented to the driver. The driver then touches the screen to point out where he/she feels danger. After the screen is touched, the tool presents the collision scene and tells the driver if what he/she pointed out is correct. Various effects were observed such as this tool increased the discovery rate of collision targets and reduced the reaction time. In this study, we optimized this tool for the smartphone and verified its effectiveness. Verifying in the same way as in the previous study on tablet devices clarified that the same effect can be obtained on the smartphone screen.
Keywords : hazard perception, smartphone, tablet devices, driver education
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