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Titel des Beitrags: Visual Displays of Route Properties in Route Guidance Systems: Effects on Driving Performance and Route Selection

Abstract: Route guidance systems are predominant examples for in-vehicle telematic systems. The format in which the information is presented in these systems determines the ease of interacting with the system and may influence driving performance. An experiment compared the effects of a table, a separable bar graph and an integrated object display on the time required for route selection, driving performance and subjective evaluations of route guidance information. The integrated display was superior in performance times and participants’ preferences and led to the least lane deviations in a driving simulator study. The tabular display led to the most accurate performance. The study provides information on issues related to information display in telematic systems and on the effects the display and system use may have on driving performance. These issues need to be taken into account when designing next generation telematic systems.

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