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Performance Metrics for Assessing Driver Distraction: The Quest for Improved Road Safety

AUTHOR(S): Gary L. Rupp

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This book focuses on the study of secondary task demands imposed by in-vehicle devices on the driver while driving. It provides a mechanism for researchers to evaluate how in-vehicle devices such as navigation systems – as well as other devices such as cell phones – affect driver distraction and impact safety. This book, which features the work presented by international experts at the 4th International Driver Metrics Workshop, in June 2008, offers a summary of the current state of driver metrics research. Edited by workshop moderator Dr. Gary L. Rupp, the book introduces vital information to support the design of in-vehicle information and communication systems (IVIS).

Topics covered include:

- Driver object and event detection
- Peripheral detection tasks (PDT)
- Tactile-based detection tasks (TDT)
- Modified Sternberg method for assessing visual and cognitive load of in-vehicle tasks
- Modified Sternberg method for assessing peripheral detection task and lane change tests
- The relationship between performance metrics and crash risk
- Characterizing driver behaviors observed in naturalist driving studies
- Developing metrics from lane change test studies

New Book



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