

Measuring Aggressive Driving Behavior Using A Driving

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Measuring Aggressive Driving Behavior Using

This research tests new methods for measuring and studying aggressive driving behavior using a driving simulator. In this regard, the theoretical merit of the research lies in the eventual development of richer driving behavior models which capitalize on the availability of multiple types of driver-related data (attitudes and driving performance).

MEASURING AGGRESSIVE DRIVING BEHAVIOR USING A DRIVING ...

Driving simulators have also been used to measure aggressive driving behavior (Abou-Zeid et al. 2011) and driver frustration (McGarva et al. 2006). However, to the best of our knowledge, no study...

(PDF) MEASURING AGGRESSIVE DRIVING BEHAVIOR USING A ...

Abstract: In this paper, we propose a method of measuring aggressive driving behavior using driving signals from drive recorders. Drivers are assigned aggressiveness scores for four vehicle operation behaviors, i.e., steering, acceleration, deceleration, and alternation between acceleration and deceleration.

Measuring aggressive driving behavior using signals from ...

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Measuring Aggressive Driving Behavior Using A Driving ...

Measuring Aggressive Driving Behavior Using a Driving Simulator: An Exploratory Study. Aggressive driving is typically stimulated by impatience, frustration, or anger and manifests itself through unsafe driving behaviors such as running red lights, traffic weaving, or tailgating.

Measuring Aggressive Driving Behavior Using A Driving

In the aggressive driving literature, the quantification of aggressive driving which is commonly done in three ways: (1) asking participants how much they engage in a list of behaviors pre-determined to be aggressive (e.g., tailgating, speeding), (2) measuring particular driving metrics (e.g., following distance between vehicles, speed) and generating an aggressive driving score, or (3) using a scoring guide for research assistants to rate behaviors as aggressive.

Measuring the perception of aggression in driving behavior ...

There are a variety of different motivations that may provoke aggressive driving in individuals. Research on aggressive driving has mostly overlooked addressing these various motivations, however it can be argued that the best way to reduce aggressive driving is to understand the root causes of the behavior. These causes can be explained by individual differences in personality, specifically ...

"Measuring aggressive driving motivations: Instrument ...

Finally, it is hoped that evaluations of the demonstration projects will further our understanding of how to define and measure aggressive driving. On March 30, 1999, the City of Milwaukee launched "Aggressive Suppression" a six-month aggressive driving enforcement campaign. The program

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represented the first aggressive driving enforcement ...

U.S. Department of Transportation - NHTSA - Evaluation of ...

Several driver behavior profiling work [9 - 14] use a smartphone based sensor-fusion to identify aggressive driving events (e.g., aggressive acceleration, aggressive break) as the basis to calculate driver score. Another work [15] uses vehicle sensor data to provide driving tips and assess fuel consumption as a function of driver profile.

Driver behavior profiling: An investigation with different ...

Unsafe driving profiles include driving in an aggressive manner, being distracted from the driving task (use of mobile phone) as well as developing risk taking behaviors (speeding) while driving. Although there is a high correlation between aggressiveness and other unsafe driving behavior, it is possible to drive aggressively without driving ...

Identifying driving safety profiles from smartphone data ...

Measuring aggressive driving motivations: Instrument development and validation by Ashley Arden Buller A dissertation submitted to the graduate faculty ... Past Aggressive Driving Behavior Items 61 Table 14. Study 1: Past Risky Driving Behavior Items 62 Table 15. Study 1: Summary of Hierarchical Regression Analysis for Variables 64

Measuring aggressive driving motivations: Instrument ...

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Measuring Aggressive Driving Behavior Using A Driving

Perhaps the most prevalent approach to gauge aggressive behavior or inclinations is to offer participants an opportunity to dispense aversive stimuli or punishments to someone else.

Measures of aggression / Dr Simon Moss / - Sicotests

A combined measure of aggressive driving that included off-road driving, verbal aggression, and aggressive gestures found a significant positive relationship between narcissism and aggressive driving.

"Outta My Way!" Narcissism Is Linked to Aggressive Driving ...

Personality factors were measured using the Revised Competitiveness Index, the Sensation Seeking Scale, the Big Five Inventory, and the Cook Medley Hostility Scale, whereas aggressive driving behavior was measured using the Aggressive Driving Behavior Scale (ADBS).

Personality Factors, Age, And Aggressive Driving: A ...

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Measuring Aggressive Driving Behavior Using A Driving

Demographic variables (e.g., driver age, gender, experience, etc.) are relevant, but the focus has been on identifying components of driver personality that predict aggressive driving (e.g., tailgating, honking one's horn in anger, yelling or making angry gestures at other drivers, etc.) and other unsafe driving behaviors (e.g., failing to wear safety belts, using a cellular phone while driving, driving under the influence of alcohol or drugs, etc.).