

Distributed Situation Awareness in Road Transport: Theory, Measurement, and Application to Intersection Design (The Human Factors of Simulation and Assessment Series)

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How can we design transport environments that cater to the situation awareness needs of different end-users? This book answers this question by showcasing how state-of-the-art human factors theory and methods can be used to understand how situation awareness differs across drivers, cyclists, motorcyclists, and pedestrians and creates new designs that cater to these diverse situation awareness needs.

Written by experts in the field and based on a major program of work funded by the Australian Research Council, this book outlines the distributed situation awareness model and provides practical guidance on how to study situation awareness naturalistically and how to create designs that support, rather than hinder, situation awareness. The book closes by outlining a generic framework to support similar applications in other areas, and discusses future applications in areas such as vehicle automation, artificial intelligence, and cybersecurity.

Features

Challenges traditional road safety analysis, design processes and conventions
Outlines a novel on-road study methodology for analyzing naturalistic interactions among drivers, cyclists, motorcyclists and pedestrians
Presents a review of state-of-the-art situation awareness theory and methods
Provides practical guidance on a series of human factors methods
Describes a framework to support the design of transport environments
Evaluates new intersection concepts that encompass features designed to prevent collisions at intersections

Distributed Situation Awareness in Road Transport : Theory - Human factors design guidance for driver-vehicle interfaces (Report No.... surface transportation system that will support applications to enhance safety, mobility, and.. some exploratory pilot research on methods to assess situational awareness as a tool... ADAS module in driving simulation for training young drivers. Human Factors of Visual and Cognitive Performance in Driving - 2 Pedestrian safety in roadway design and land-use planning..... 25. 2.1 How roadway design 3 .2 How to assess the pedestrian safety situation .. Key risk factors for pedestrian road traffic injury are. involved in the series.. provision of a safe transport system that is forgiving of human error and takes into account Designing driver-vehicle cooperation principles for automated - of the book: Ian Thomson, Chief of the ECLAC Transport Unit; Vicente Pardo,.. Description of the measure .. SIMULATION AND EVALUATION OF ANTI-CONGESTION... vehicles in developing countries, as a result of various factors, such as the increase.. (a) Urban road networks: design and maintenance problems. Handbook of Human Factors and Ergonomics Methods - linking that to a healthy measure of practical experience. all contributions " some of which he himself wrote " to create this manual... 7.4.1 Use of different types of intersection 272.. Human Factors in Traffic Safety, R.E. Dewar, P.L. Olson.... Road user's state awareness Ability to assess one's capacity to handle the Distributed Situation Awareness in Road Transport - Amazon - IDTS utilizes fuzzy set theory for the assessment of driver performance. that identify driving competency were initially designed with the help of expert's... available for collecting human error data within road transport and also,. risk perception, situational awareness, risk acceptance and self-assessment... time series. Aviation Psychology and Human Factors - Index of - indicate each measure's effectiveness taking into account several factors that.. Guidelines for PTW-Safer Road Design in Europe " ACEM ... PTW Parking within Intersections Programmes to Increase Awareness on Safety Helmet Use Safety philosophy: humans make errors; road transport systems should Annual Meeting - HFES 2019 - Evaluation and Interface Design: Cognitive Engineering, Intelligent Agents and. The objective of this book series on human factors and ergonomics is to provide the chapters deal with the theory of cognitive task design, 12 of them deal with its... Direct measurement of situation awareness in simulations of dynamic Distributed Situation Awareness in Road Transport - Book - 2University of Michigan Transportation Research Institute (UMTRI), USA. The Dawn of Automotive Human Factors Design (1920"1939) In an early book on automotive engineering written by Wunibald Kamm, an automobile.. location, became available for vehicle and simulator use in the 1970s. Distributed Situation Awareness in Road Transport: Theory, - Distributed Situation Awareness in Road Transport: Theory, Measurement, and Application to Intersection Design - CRC

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