



SITUATION AWARENESS ANALYSIS AND MEASUREMENT

EDITED BY

MICA R. ENDSLEY • DANIEL J. GARLAND

Situation Awareness Analysis And Measurement

Valerie Jane Gawron



Situation Awareness Analysis And Measurement:

Situation Awareness Analysis and Measurement Mica R. Endsley, Daniel J. Garland, 2000-07-01 A comprehensive overview of different approaches to the measurement of situation awareness in experimental and applied settings this book directly tackles the problem of ensuring that system designs and training programs are effective at promoting situation awareness It is the first book to provide a all inclusive coverage of situation awareness and its measurement Topics addressed provide a detailed analysis of the use of a wide variety of techniques for measuring situation awareness and situation assessment processes It provides a rich resource for engineers and human factors psychologists involved in designing and evaluating systems in many domains

Situation Awareness Analysis and Measurement Mica R. Endsley, Daniel J. Garland, 2000-07-01 Situation Awareness Analysis and Measurement provides a comprehensive overview of different approaches to the measurement of situation awareness in experimental and applied settings Creating system designs and training programs to enhance situation awareness is a key goal in the development of systems in such widely ranging fields as aviation advanced transportation programs command and control process control and medicine This book directly tackles the problem of ensuring that system designs and training programs are effective at promoting situation awareness Situation Awareness Analysis and Measurement is the first book to provide a comprehensive coverage of situation awareness and its measurement Topics addressed provide a detailed analysis of the use of a wide variety of techniques for measuring situation awareness and situation assessment processes It will provide a rich resource for engineers and human factors psychologists involved in designing and evaluating systems in many domains

Experimental Analysis and Measurement of Situation

Awareness Daniel J. Garland, Mica R. Endsley, 1995

A Cognitive Approach to Situation Awareness: Theory and

Application Sébastien Tremblay, 2017-03-02 The importance of situation awareness SA in assessing and predicting operator competence in complex environments has become increasingly apparent in recent years It has been widely established that SA is a contributing factor to many commercial and military accidents and incidents Yet determining exactly what constitutes SA is a very difficult task given the complexity of the construct itself and the many different processes involved with its acquisition and maintenance This volume brings together recent developments from researchers and practitioners from around the world who are studying and applying SA from a cognitive perspective The 41 contributors represent many different theoretical perspectives research approaches and domains of application Each chapter has a primary emphasis around one of three main topics theory measurement and application and examines the considerable inter linkage between them To bring further coherence to the book all of the contributors received draft manuscripts of those chapters most relevant to their own Designed to be completely international and interdisciplinary the authors themselves present varied perspectives from academic departments and industrial organisations from around the world and from broad applications with contributions from researchers in the domains of process control sport aviation transportation and command and

control The readership includes practitioners academics and researchers within human factors ergonomics and industrial psychology Graduate and Undergraduate students specialising within these areas during their final year

Designing for Situation Awareness Mica R. Endsley,2003-07-17 Enhancing Situation Awareness SA is a major design goal for projects in many fields including aviation ground transportation air traffic control nuclear power and medicine but little information exists in an integral format to support this goal Designing for Situation Awareness helps designers understand how people acquire and inte

Human Performance and Situation Awareness Measures Valerie Jane Gawron,2019-01-04 This book was developed to help researchers and practitioners select measures to be used in the evaluation of human machine systems The book begins with an overview of the steps involved in developing a test to measure human performance This is followed by a definition of human performance and a review of human performance measures Another section defines situational awareness with reviews of situational awareness measures For both the performance and situational awareness sections each measure is described along with its strengths and limitations data requirements threshold values and sources of further information To make this reference easier to use extensive author and subject indices are provided Features Provides a short engineering tutorial on experimental design Offers readily accessible information on human performance and situational awareness SA measures Presents general description of the measure Covers data collection reduction and analysis requirements Details the strengths and limitations or restrictions of each measure including proprietary rights or restrictions

Human Performance, Situation Awareness, and Automation Dennis A. Vincenzi, Mustapha Mouloua, Peter A. Hancock,2005-01-06 In 2000 the Conference on Automation joined forces with a partner group on situation awareness SA The rising complexity of systems demands that one can be aware of a large range of environmental and task based stimulation in order to match what is done with what has to be done Thus SA and automation based interaction fall naturally together and this conference is the second embodiment of this union Moving into the 21st century further diversification of the applications of automation will continue for example the revolution in genetic technology Given the broad nature of this form of human machine interaction it is vital to apply past lessons to map a future for the symbiotic relationship between humans and the artifacts they create It is as part of this ongoing endeavor that the present volume is offered

Situational Awareness Aaron S. Dietz,2017-07-05 Situational awareness has become an increasingly salient factor contributing to flight safety and operational performance and the research has burgeoned to cope with the human performance challenges associated with the installation of advanced avionics systems in modern aircraft The systematic study and application of situational awareness has also extended beyond the cockpit to include air traffic controllers and personnel operating within other complex high consequence work domains This volume offers a collection of essays that have made important contributions to situational awareness research and practice To this end it provides unique access to key readings that address the conceptual development of situational awareness methods for its assessment and applications to enhance

situational awareness through training and design

Handbook of Human Factors Testing and Evaluation Samuel G.

Charlton, Thomas G. O'Brien, 2019-09-25 Like the first edition the revision of this successful Handbook responds to the growing need for specific tools and methods for testing and evaluating human system interfaces Indications are that the market for information on these tools and applications will continue to grow in the 21st century One of the goals of offering a second edition is to expand and emphasize the application chapters providing contemporary examples of human factors test and evaluation HFTE enterprises across a range of systems and environments Coverage of the standard tools and techniques used in HFTE have been updated as well New features of the Handbook of Human Factors Testing and Evaluation include new chapters covering human performance testing manufacturing ergonomics anthropometry generative design methods and usability testing updated tools and techniques for modeling simulation embedded testing training assessment and psychophysiological measurement new applications chapters presenting human factors testing examples in aviation and avionics forestry road safety and software systems and more examples illustrations graphics and tables have been added The orientation of the current work has been toward breadth of coverage rather than in depth treatment of a few issues or techniques Experienced testers will find much that is familiar as well as new tools creative approaches and a rekindled enthusiasm Newcomers will discover the diversity of issues methods and creative approaches that make up the field In addition the book is written in such a way that individuals outside the profession should learn the intrinsic value and pleasure in ensuring safe efficient and effective operation as well as increased user satisfaction through HFTE

Handbook of Human Factors and Ergonomics Gavriel Salvendy, 2012-05-24 The fourth edition of the Handbook of Human Factors and Ergonomics has been completely revised and updated This includes all existing third edition chapters plus new chapters written to cover new areas These include the following subjects Managing low back disorder risk in the workplace Online interactivity Neuroergonomics Office ergonomics Social networking HF E in motor vehicle transportation User requirements Human factors and ergonomics in aviation Human factors in ambient intelligent environments As with the earlier editions the main purpose of this handbook is to serve the needs of the human factors and ergonomics researchers practitioners and graduate students Each chapter has a strong theory and scientific base but is heavily focused on real world applications As such a significant number of case studies examples figures and tables are included to aid in the understanding and application of the material covered

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