



# SITUATION AWARENESS ANALYSIS AND MEASUREMENT

EDITED BY

MICA R. ENDSLEY • DANIEL J. GARLAND

# Situation Awareness Analysis And Measurement

**Mica R. Endsley, Daniel J. Garland**



## **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 **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 *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 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 **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 **Human Performance, Workload, and Situational Awareness Measures Handbook, Third Edition - 2-Volume Set** Valerie Jane Gawron, 2019-12-17 This two volume set was developed to help researchers and practitioners select measures to be used in the evaluation of human machine systems It can also be used to supplement classes at both the undergraduate and graduate courses in ergonomics experimental psychology human factors human performance measurement and system test and evaluation Volume 1 of the handbook begins with an overview of the steps involved in developing a test to measure human performance workload and or situational awareness This is followed by a definition of human performance and a review of human performance measures Situational Awareness is similarly treated in a subsequent

chapter Volume 2 presents a definition of workload and a review of workload measures Provides a short engineering tutorial on experimental design Offers readily accessible information on human performance workload and situational awareness SA measures Presents general description of the measure Covers data collection reduction and analysis requirement Details out the strengths and limitations or restrictions of each measure including any known proprietary rights or restrictions as well as validity and reliability data

*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 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

**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

**International Encyclopedia of Ergonomics and Human Factors - 3 Volume Set** Informa Healthcare,2000-12-14 The first encyclopedia in the field the International Encyclopedia of Ergonomics and Human Factors provides a comprehensive and authoritative compendium of current knowledge on ergonomics and human factors It gives specific information on concepts and tools unique to ergonomics About 500 entries published in three volumes and on CD ROM are pre

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**Information Technology in Disaster Risk Reduction** Terje Gjøsæter,Jaziar Radianti,Yuko Murayama,2023-05-28 This volume constitutes the refereed and revised post conference proceedings of the 7th IFIP WG 5 15 International Conference on Information Technology in Disaster Risk Reduction ITDRR 2022 held in Kristiansand Norway in October 2022 The 23 full papers presented were carefully reviewed and selected from 33 submissions The papers focus on various aspects and challenges of coping with disaster risk reduction The papers are categorized in the following topical subheadings strategic disaster risk reduction situational awareness telecommunications sensors and drones collaborative emergency management cybersecurity and privacy earthquake and climate forecasting social media analytics community resilience

**Human Performance on the Flight Deck** Don Harris,2016-12-05 Taking an integrated systems approach to dealing exclusively with the human performance issues encountered on the flight deck of the modern airliner this book describes the inter relationships between the various application areas of human factors recognising that the human contribution to the operation of an airliner does not fall into neat pigeonholes The relationship between areas such as pilot selection training flight deck design and safety management is continually emphasised within the book It also affirms the upside of human factors in aviation the positive contribution that it can make to the industry and avoids placing undue emphasis on when the human component fails The book is divided into four main parts Part one describes the underpinning science base with chapters on human information processing workload situation awareness decision making error and individual differences Part two of the book looks at the human in the system containing chapters on pilot selection simulation and training stress fatigue and alcohol and environmental stressors Part three takes a closer look at the machine the aircraft beginning with an examination of flight deck display design followed by chapters on aircraft control flight deck automation and HCI on the flight deck Part four completes the volume with a consideration of safety management issues both on the flight deck and across the airline the final chapter in this section looks at human factors for incident and accident investigation The book is

written for professionals within the aviation industry both on the flight deck and elsewhere for post graduate students and for researchers working in the area

**The Cambridge Handbook of Expertise and Expert Performance** K. Anders Ericsson, Robert R. Hoffman, Aaron Kozbelt, A. Mark Williams, 2018-05-17 In this updated and expanded edition of The Cambridge Handbook of Expertise and Expert Performance some of the world's foremost experts on expertise share their scientific knowledge of expertise and expert performance and show how experts may differ from non experts in terms of development training reasoning knowledge and social support The book reviews innovative methods for measuring experts knowledge and performance in relevant tasks Sixteen major domains of expertise are covered including sports music medicine business writing and drawing with leading researchers summarizing their knowledge about the structure and acquisition of expert skills and knowledge and discussing future prospects General issues that cut across most domains are reviewed in chapters on various aspects of expertise such as general and practical intelligence differences in brain activity self regulated learning deliberate practice aging knowledge management and creativity

Smart Electromechanical Systems Andrey E. Gorodetskiy, Irina L. Tarasova, 2019-11-02 This book introduces the latest achievements of Russian scientists regarding the theory and practice of situational control of the SEMS group It also discusses the development of methods and algorithms for interaction of the SEMS group in situational control based on the principles of security flexibility and adaptability in behavior as well as parallelism in information processing computing and control Recently the task of ensuring the functioning of robots in the framework of collective cooperation has become relevant and the use of the principles of situational management of the SEMS group makes it possible to ensure the efficiency reliability and safety of real time operation The topics covered include but are not limited to the following Problems and principles of situation control Methods and algorithms of situational control Information and measuring support of situational control systems Simulation of situation control This book is intended for students scientists and engineers specializing in the fields of smart electromechanical systems and robotics

The Story of Industrial Engineering Adedeji B. Badiru, 2018-11-09 Industrial engineering is the profession dedicated to making collective systems function better with less waste better quality and fewer resources to serve the needs of society more efficiently and more effectively This book uses a story telling approach to advocate and elaborate the fundamental principles of industrial engineering in a simple interesting and engaging format It will stimulate interest in industrial engineering by exploring how the tools and techniques of the discipline can be relevant to a broad spectrum of applications in business industry engineering education government and the military Features Covers the origin of industrial engineering Discusses the early pioneers and profiles the evolution of the profession Presents offshoot branches of industrial engineering Illustrates specific areas of performance measurement and human factors Links industrial engineering to the emergence of digital engineering Uses the author's personal experience to illustrate his advocacy and interest in the profession

**Safety at the Sharp End** Rhona Flin, Paul O'Connor, 2017-05-15 Many 21st century operations

are characterised by teams of workers dealing with significant risks and complex technology in competitive commercially driven environments. Informed managers in such sectors have realised the necessity of understanding the human dimension to their operations if they hope to improve production and safety performance. While organisational safety culture is a key determinant of workplace safety, it is also essential to focus on the non-technical skills of the system operators based at the sharp end of the organisation. These skills are the cognitive and social skills required for efficient and safe operations, often termed Crew Resource Management (CRM) skills. In industries such as civil aviation, it has long been appreciated that the majority of accidents could have been prevented if better non-technical skills had been demonstrated by personnel operating and maintaining the system. As a result, the aviation industry has pioneered the development of CRM training. Many other organisations are now introducing non-technical skills training, most notably within the healthcare sector.

**Safety at the Sharp End** is a general guide to the theory and practice of non-technical skills for safety. It covers the identification, training and evaluation of non-technical skills and has been written for use by individuals who are studying or training these skills on CRM and other safety or human factors courses. The material is also suitable for undergraduate and post-experience students studying human factors or industrial safety programmes.

**Comprehensive Healthcare Simulation: Surgery and Surgical Subspecialties** by Dimitrios Stefanidis, James R. Korndorffer Jr., and Robert Sweet, 2019-01-05. This pragmatic book is a guide for the use of simulation in surgery and surgical subspecialties, including general surgery, urology, gynecology, cardiothoracic and vascular surgery, orthopedics, ophthalmology, and otolaryngology. It offers evidence-based recommendations for the application of simulation in surgery and addresses procedural skills training, clinical decision making, and team training, and discusses the future of surgical simulation. Readers are introduced to the different simulation modalities and technologies used in surgery with a variety of learners, including students, residents, practicing surgeons, and other health-related professionals.



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