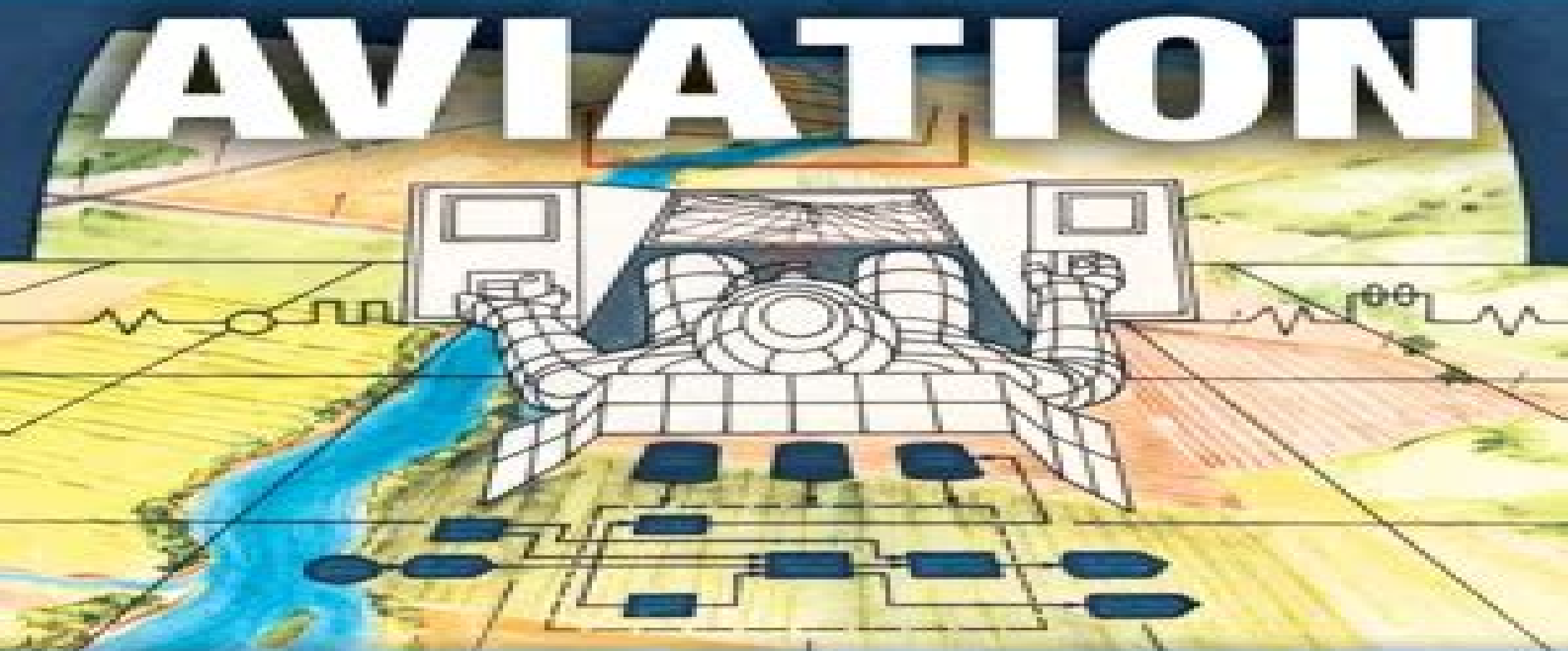


Human Performance Modeling in AVIATION



Edited by
David C. Foyle and Becky L. Hooey



CRC Press
Taylor & Francis Group

Human Performance Modeling In Aviation

Wayne D. Gray



Human Performance Modeling In Aviation:

Human Performance Modeling in Aviation David C. Foyle, Becky L. Hooey, 2007-12-07 Based on the research activities of the six year NASA human performance modeling project Human Performance Modeling in Aviation provides an in depth look at cognitive modeling of human operators for aviation problems This book presents specific solutions to aviation safety problems and explores methods for integrating human performance modeling into the aviation design process The text compares the application of five different models to two classes of aviation problems pilot navigation errors during airport taxi operations and approach and landing performance with synthetic vision systems This results in a comprehensive summary of the capabilities of each model and of the field in general **Digital Human Modeling** Vincent G.

Duffy, 2009-07-14 The 13th International Conference on Human Computer Interaction HCI International 2009 was held in San Diego California USA July 19 24 2009 jointly with the Symposium on Human Interface Japan 2009 the 8th International Conference on Engineering Psychology and Cognitive Ergonomics the 5th International Conference on Universal Access in Human Computer Interaction the Third International Conference on Virtual and Mixed Reality the Third International Conference on Internationalization Design and Global Development the Third International Conference on Online Communities and Social Computing the 5th International Conference on Augmented Cognition the Second International Conference on Digital Human Modeling and the First International Conference on Human Centered Design A total of 4 348 individuals from academia research institutes industry and governmental agencies from 73 countries submitted contributions and 1 397 papers that were judged to be of high scientific quality were included in the program These papers present the latest research and development efforts and highlight the human aspects of the design and use of computing systems The papers accepted for presentation thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas Integrated Models of Cognitive Systems Wayne D.

Gray, 2007-04-19 The field of cognitive modeling has progressed beyond modeling cognition in the context of simple laboratory tasks and begun to attack the problem of modeling it in more complex realistic environments such as those studied by researchers in the field of human factors The problems that the cognitive modeling community is tackling focus on modeling certain problems of communication and control that arise when integrating with the external environment factors such as implicit and explicit knowledge emotion cognition and the cognitive system These problems must be solved in order to produce integrated cognitive models of moderately complex tasks Architectures of cognition in these tasks focus on the control of a central system which includes control of the central processor itself initiation of functional processes such as visual search and memory retrieval and harvesting the results of these functional processes Because the control of the central system is conceptually different from the internal control required by individual functional processes a complete architecture of cognition must incorporate two types of theories of control Type 1 theories of the structure functionality and

operation of the controller and type 2 theories of the internal control of functional processes including how and what they communicate to the controller This book presents the current state of the art for both types of theories as well as contrasts among current approaches to human performance models It will be an important resource for professional and student researchers in cognitive science cognitive engineering and human factors Contributors Kevin A Gluck Jerry T Ball Michael A Krusmark Richard W Pew Chris R Sims Vladislav D Veksler John R Anderson Ron Sun Nicholas L Cassimatis Randy J Brou Andrew D Egerton Stephanie M Doane Christopher W Myers Hansj rg Neth Jeremy M Wolfe Marc Pomplun Ronald A Rensink Hansj rg Neth Chris R Sims Peter M Todd Lael J Schooler Wai Tat Fu Michael C Mozer Sachiko Kinoshita Michael Shettel Alex Kirlik Vladislav D Veksler Michael J Schoelles Jerome R Busemeyer Eric Dimperio Ryan K Jessup Jonathan Gratch Stacy Marsella Glenn Gunzelmann Kevin A Gluck Scott Price Hans P A Van Dongen David F Dinges Frank E Ritter Andrew L Reifers Laura Cousino Klein Michael J Schoelles Eva Hudlicka Hansj rg Neth Christopher W Myers Dana Ballard Nathan Sprague Laurence T Maloney Julia Trommersh user Michael S Landy A Hornof Michael J Schoelles David Kieras Dario D Salvucci Niels Taatgen Erik M Altmann Richard A Carlson Andrew Howes Richard L Lewis Alonso Vera Richard P Cooper and Michael D Byrne

Engineering Psychology and Cognitive Ergonomics: Performance, Emotion and Situation Awareness Don Harris, 2017-06-28 This book constitutes the proceedings of the 14th International Conference on Engineering Psychology and Cognitive Ergonomics EPCE 2017 held in Vancouver Canada in July 2017 HCII 2017 received a total of 4340 submissions of which 1228 papers were accepted for publication after a careful reviewing process The papers thoroughly cover the entire field of Human Computer Interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The two volumes set of EPCE 2017 presents 58 papers which are organized in the following topical sections cognition and design cognition in aviation and space cognition and driving mental workload and performance psychological and emotional issues in interaction situation awareness and control

Advances in Aviation Psychology Michael A. Vidulich, Pamela S. Tsang, John Flach, 2016-03-16 Aviation remains one of the most active and challenging domains for human factors and applied psychology Since 1981 the biennial International Symposium on Aviation Psychology ISAP has been convened for the purposes of a presenting the latest research on human performance problems and opportunities within aviation systems b envisioning design solutions that best utilize human capabilities for creating safe and efficient aviation systems and c bringing together scientists research sponsors and operators in an effort to bridge the gap between research and application Though rooted in the presentations of the 17th ISAP held in 2013 in Dayton Ohio *Advances in Aviation Psychology* is not simply a collection of selected proceeding papers Based upon the potential impact on emerging trends current debates or enduring issues present in their work select authors were invited to expand on their work following the benefit of interactions at the symposium The invited authors include the featured keynote and plenary speakers who are all leading scientists and prominent researchers that were selected to participate at the symposium These

contributions are supplemented by additional contributors whose work best reflects significant developments in aviation psychology. Consequently, the volume includes visions for the next generation of air management and air traffic control, the integration of unmanned i.e. remotely piloted vehicles into operational air spaces and the use of advanced information technologies e.g. synthetic task environments for research and training. This book is the first in a series of volumes to be published in conjunction with each subsequent ISAP. The aim of each volume is not only to report the latest findings in aviation psychology but also to suggest new directions for advancing the field.

Engineering Psychology and Human Performance Christopher D. Wickens, William S. Helton, Justin G. Hollands, Simon Banbury, 2021-09-27. Forming connections between human performance and design, this new edition of *Engineering Psychology and Human Performance* examines human-machine interaction. The book is organized directly from a psychological perspective of human information processing and chapters correspond to the flow of information as it is processed by a human being from the senses through the brain to action rather than from the perspective of system components or engineering design concepts. Upon completing this book, readers will be able to identify how human ability contributes to the design of technology, understand the connections within human information processing and human performance, challenge the way they think about technology's influence on human performance, and show how theoretical advances have been or might be applied to improving human-machine interactions. This new edition includes the following key features: A new chapter on research methods; Sections on interruption management and distracted driving as cogent examples of applications of engineering psychology theory to societal problems; A greatly increased number of references to pandemics, technostress, and misinformation; New applications; Amplified emphasis on readability and commonsense examples; Updated and new references throughout the text. This book is ideal for psychology and engineering students as well as practitioners in engineering psychology, human performance, and human factors. The text is also supplemented by online resources for students and instructors.

Naturalistic Decision Making and Macrocognition Laura Militello, Tom Ormerod, Dr Jan Maarten Schraagen, Professor Raanan Lipshitz, 2012-10-01. This book presents the latest work in the area of naturalistic decision making (NDM) and its extension into the area of macrocognition. It contains 18 chapters relating research centered on the study of expertise in naturalistic settings, written by international experts in NDM and cognitive systems engineering. The objective of the book is to present the reader with exciting new developments in this field of research, which is characterized by its application-oriented focus. The work addresses only real-world problems and issues. For instance, how do multi-national teams collaborate effectively? How can surgeons best be supported by technology? How do detectives make sense of complex criminal cases? In all instances, the studies have been carried out on experts within their respective domains. The traditional field of NDM is extended in this work by focusing on macrocognitive functions other than decision making, namely sense making, coordination, and planning. This has broadened the scope of the field. The book also contains a theoretical discussion of the macro-micro distinction. *Naturalistic Decision*

Making and Macro cognition will be relevant to graduate students researchers and professionals including professionals and researchers in business industry and government who are interested in decision making expertise training methods and system design The material may be used in two ways theoretically to advance understanding of the field of naturalistic decision making and practically to gain insight into how experts in various domains solve particular problems understand and deal with issues and collaborate with others The Handbook of Operator Fatigue Gerald Matthews,P.A.

Hancock,2017-11-01 Fatigue is a recognized problem in many facets of the human enterprise It is not confined to any one area of activity but enters all situations in which humans have to perform for extended intervals of time Most problematic are the circumstances in which obligatory action is continuous and the results of failure are evidently serious or even catastrophic Therefore the modern media especially highlights fatigue related failures in industries such as transportation materials processing and healthcare It can be and indeed is no coincidence that most of the spectacular failures in process control that have resulted in the world s largest industrial accidents have occurred in the small hours of the morning when the circadian rhythm is lowest and operator fatigue itself peaks While there have been legislative efforts made at state federal and international levels to regulate working hours of employees the appropriate implementation of such legislation is still a long way off The Handbook of Operator Fatigue provides a comprehensive account of the subject to serve as the definitive reference work for researchers students and practitioners alike The volume features 30 chapters written by experts from around the world to address each important facet of fatigue including the scale of the fatigue problem Section I the nature of fatigue Section II how to assess fatigue Section III the impact of fatigue on health Section IV fatigue in the workplace Section V the neurological basis of fatigue VI sleep disorders VII and the design of countermeasures to fatigue VIII

Man-Machine-Environment System Engineering Shengzhao Long,Balbir S. Dhillon,2023-09-04 Man Machine Environment System Engineering Proceedings of the 23rd Conference on MMESE are an academic showcase of the best papers selected from more than 500 submissions introducing readers to the top research topics and the latest developmental trends in the theory and application of MMESE This proceedings are interdisciplinary studies on the concepts and methods of physiology psychology system engineering computer science environment science management education and other related disciplines Researchers and professionals who study an interdisciplinary subject crossing above disciplines or researchers on MMESE subject will be mainly benefited from this proceedings MMESE primarily focuses on the relationship between Man Machine and Environment studying the optimum combination of man machine environment systems In this system Man refers to working people as the subject in the workplace e g operators decision makers Machine is the general name for any object controlled by Man including tools machinery computers systems and technologies and Environment describes the specific working conditions under which Man and Machine interact e g temperature noise vibration hazardous gases etc The three goals of optimization of the man machine environment systems are to ensure safety efficiency and economy The

integrated and advanced science research topic Man Machine Environment System Engineering MMESE was first established in China by Professor Shengzhao Long in 1981 with direct support from one of the greatest modern Chinese scientists Xuesen Qian In a letter to Shengzhao Long from October 22nd 1993 Xuesen Qian wrote You have created a very important modern science and technology in China

Review of NASA's Aerospace Technology Enterprise National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Committee for the Review of NASA's Revolutionize Aviation Program, 2004-02-20 The National Research Council NRC of the National Academies was asked by NASA and the Office of Management and Budget to perform an assessment of NASA's Aerospace Technology Enterprise The first such review which began in early 2002 examined Pioneering Revolutionary Technology now known as Mission and Science Measurement Technology The assessment presented here of the Aeronautics Technology Programs began in early 2003 and is the second in the review series The Aeronautics Technology Programs has three components the Vehicle Systems Program the Airspace Systems Program and the Aviation Safety Program To conduct this review the NRC established three panels one for each of the component programs The NRC also established a parent committee consisting of the chairman and a subset of members from each panel The committee and panels comprised a cross section of experts from industry academia and government and included senior level managers and researchers in the aeronautics field Biographical information on the committee and panel members is found in Appendix A Review of NASA's Aerospace Technology Enterprise An Assessment of NASA's Aeronautics Technology Programs contains the committee's assessment of the Aeronautics Technology Programs Chapter 1 presents a top level assessment and Chapters 2 through 4 provide the assessments of the Vehicle Systems Program the Airspace Systems Program and the Aviation Safety Program respectively

Handbook of Aviation Neuropsychology Robert Bor, Carina Eriksen, Randy J. Georgemiller, Alastair L. Gray, 2024-11-11 The field of aviation neuropsychology helps us to understand and improve human performance and safety in the aerospace industry both for the estimated 300 000 commercial pilots and the 4 5 billion passengers they transport every year This handbook brings together a group of internationally renowned academic and industry experts to provide a comprehensive overview of the background goals principles challenges and associated practice skills and research themes of aviation neuropsychology After an introduction to the history and development of aviation psychology additional sections focus on the importance of prevention and resilience to enhance airline workers cognitive and mental functioning to reduce the risk of human errors and accidents as well as the different aspects of assessment including pilot medical certification neuropsychological testing and cultural considerations Additional chapters explore how we can learn from past errors and build on existing strengths Finally special aspects are examined including the role of different common conditions e g neurological and psychological disorders and report writing in aviation Readers will find the book full of unique insights theory and research giving them a comprehensive overview of the field While the book is designed primarily for health care

professionals neuropsychologists clinical psychologists aviation psychologists aviation medical examiners neurologists and flight safety specialists it will be of interest to other professionals inside and outside of aviation including professionals in other safety critical settings or researchers looking to improve safety in the aviation industry

Human Performance Models for Computer-aided Engineering Jerome I. Elkind,1990 Human Performance Models for Computer Aided Engineering is a collection of papers that deals with the relationship between scientific theories of human performance and practical engineering This collection describes the emergence of a scientific engineering paradigm that uses computational theories in computational design aids This book also considers computational human factors such as human performance models and their application in computer based engineering designs This text then presents applications of these models to some helicopter flight problems This book also explains the four requirements in programming a computer based model of the sensory performance of a pilot as 1 prediction capability 2 measurement capability 3 provision of compatible computer algorithms and 4 image driven This collection also describes cognitive structures aspects of the human information processing system This text then discusses resource management and time sharing issues that is related to competition of scarce resources which can be predictive of the quality of information processing This book also describes other modeling scenarios such as those predicting human errors decision making and shape modeling This text can prove valuable for computer programmers engineers physicists and research scientists dealing with psychophysics

Cognitive Engineering in the Aviation Domain Nadine B. Sarter,Rene Amalberti,2000-09-01 Although cognitive engineering has gained widespread acceptance as one of the most promising approaches to addressing and preventing difficulties with human machine coordination and collaboration it still meets with considerable skepticism and resistance in some of the industries that could benefit from its insights and recommendations The challenge

Scientific and Technical Aerospace Reports,1992

Human Performance Optimization Michael D. Matthews,David M. Schnyer,2019 Human Performance Optimization The Science and Ethics of Enhancing Human Capabilities explores current and emerging strategies for enhancing individual and team performance especially in high stakes stressful settings such as the military law enforcement firefighting or competitive corporate settings Taking a cognitive neuroscience perspective scientifically grounded approaches to optimizing human performance are explored in depth

International Encyclopedia of Ergonomics and Human Factors - 3 Volume Set Informa Healthcare,Waldemar Karwowski,2006-03-15 The previous edition of the International Encyclopedia of Ergonomics and Human Factors made history as the first unified source of reliable information drawn from many realms of science and technology and created specifically with ergonomics professionals in mind It was also a winner of the Best Reference Award 2002 from the Engineering Libraries

Quantitative Modeling of Human Performance in Complex, Dynamic Systems National Research Council,Division of Behavioral and Social Sciences and Education,Board on Human-Systems Integration,Committee on Human Factors,Panel on Human Performance Modeling,1990-01-01 This book describes and

evaluates existing models of human performance and their use in the design and evaluation of new human technology systems Its primary focus is on the modeling of system operators who perform supervisory and manual control tasks After an introduction on human performance modeling the book describes information processing control theory task network and knowledge based models It explains models of human performance in aircraft operations nuclear power plant control maintenance and the supervisory control of process control systems such as oil refineries The book concludes with a discussion of model parameterization and validation and recommends a number of lines of research needed to strengthen model development and application

Applications of Human Performance Models to System Design Grant R. McMillan, David Beevis, Eduardo Salas, 2013-06-29 The human factors profession is currently attempting to take a more proactive role in the design of man machine systems than has been characteristic of its past Realizing that human engineering contributions are needed well before the experimental evaluation of prototypes or operational systems there is a concerted effort to develop tools that predict how humans will interact with proposed designs This volume provides an overview of one category of such tools mathematical models of human performance It represents a collection of invited papers from a 1988 NATO Workshop The Workshop was conceived and organized by NATO Research Study Group 9 RSG 9 on Modelling of Human Operator Behaviour in Weapon Systems It represented the culmination of over five years of effort and was attended by 139 persons from Europe Canada and the United States RSG 9 was established in 1982 by Panel 8 of the Defence Research Group to accomplish the following objectives Determine the utility and state of the art of human performance modelling Encourage international research and the exchange of ideas Foster the practical application of modelling research Provide a bridge between the models and approaches adopted by engineers and behavioral scientists Present the findings in an international symposium

Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 2000 United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies, 1999

Principles and Practice of Aviation Psychology Pamela S. Tsang, Michael A. Vidulich, 2002-08-01 Covering field history and discussing actual modern day pilot actions and tasks the editors of this volume have integrated contributions from leaders in aviation to present psychological principles and research pertinent to the interface between a pilot and the cockpit The book addresses the pilot's cognitive demands capabilities and limitations which have important implications for operator selection and training as well as display control designs in the cockpit It emphasizes scientific methods of achieving this understanding and implies that theories and principles of human behavior are shaped and improved by practical problems and applied studies

Reviewing **Human Performance Modeling In Aviation**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Human Performance Modeling In Aviation**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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