



Human Centered Automation

a philosophy for automation in aviation

Paula Azevedo Macedo and Jose Ricardo Parizi Negrão



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Principles Of Human Centered Aviation Automation

Charles E. Billings



Principles Of Human Centered Aviation Automation:

Human-Centered Aviation Automation National Aeronautics and Space Administration (NASA),2018-07-25 This document presents principles and guidelines for human centered automation in aircraft and in the aviation system Drawing upon operational experience with highly automated aircraft it describes classes of problems that have occurred in these vehicles the effects of advanced automation on the human operators of the aviation system and ways in which these problems may be avoided in the design of future aircraft and air traffic management automation Many incidents and a few serious accidents suggest that these problems are related to automation complexity autonomy coupling and opacity or inadequate feedback to operators An automation philosophy that emphasizes improved communication coordination and cooperation between the human and machine elements of this complex distributed system is required to improve the safety and efficiency of aviation operations in the future Billings Charles E Ames Research Center NASA TM 110381 A 961056 NAS 1 15 110381 NAG2 810 **Human-Centered Aviation Automation: Principles and Guidelines** ,1996 Aviation Automation

Charles E. Billings,2018-01-29 The advent of very compact very powerful digital computers has made it possible to automate a great many processes that formerly required large complex machinery Digital computers have made possible revolutionary changes in industry commerce and transportation This book an expansion and revision of the author s earlier technical papers on this subject describes the development of automation in aircraft and in the aviation system its likely evolution in the future and the effects that these technologies have had and will have on the human operators and managers of the system It suggests concepts that may be able to enhance human machine relationships in future systems The author focuses on the ability of human operators to work cooperatively with the constellation of machines they command and control because it is the interactions among these system elements that result in the system s success or failure whether in aviation or elsewhere Aviation automation has provided great social and technological benefits but these benefits have not come without cost In recent years new problems in aircraft have emerged due to failures in the human machine relationship These incidents and accidents have motivated this inquiry into aviation automation Similar problems in the air traffic management system are predicted as it becomes more fully automated In particular incidents and accidents have occurred which suggest that the principle problems with today s aviation automation are associated with its complexity coupling autonomy and opacity These problems are not unique to aviation they exist in other highly dynamic domains as well The author suggests that a different approach to automation called human centered automation offers potential benefits for system performance by enabling a more cooperative human machine relationship in the control and management of aircraft and air traffic

Human-centered Aircraft Automation Charles E. Billings,Ames Research Center,NASA Center for AeroSpace Information,United States. National Aeronautics and Space Administration,1996 This document presents principles and guidelines for human centered automation in aircraft and in the aviation system It describes classes of problems that have

occurred in these vehicles the effects of advanced automation on the human operators of the aviation system and ways in which these problems may be avoided in the design of future aircraft and air traffic management automation

Handbook of Human Systems Integration Harold R. Boohar, 2003-07-07 A groundbreaking look at how technology with a human touch is revolutionizing government and industry Human Systems Integration HSI is very attractive as a new integrating discipline designed to help move business and engineering cultures toward a more people technology orientation Over the past decade the United States and foreign governments have developed a wide range of tools techniques and technologies aimed at integrating human factors into engineering systems in order to achieve important cost and performance benefits that otherwise would not have been accomplished In order for this new discipline to be effective however a cultural change is needed that must start with organizational leadership Handbook of Human Systems Integration outlines the principles and methods that can be used to help integrate people technology and organizations with a common objective toward designing developing and operating systems effectively and efficiently Handbook of Human Systems Integration is broad in scope covering both public and commercial processes as they interface with systems engineering processes Emphasizing the importance of management and organization concepts as well as the technical uniqueness of HSI Handbook of Human Systems Integration features More than ninety contributors technical advisors and reviewers from government industry and academia Comprehensive coverage of the most recent HSI developments particularly in presenting the cutting edge tools techniques and methodologies utilized by each of the HSI domains Chapters representing the governments and industries of the United Kingdom and Canada Contributions from three services of the Department of Defense along with the Federal Aviation Administration and the National Academy of Sciences Many chapters covering both military and nonmilitary applications Concepts widely used by government contractors both in the United States and abroad This book will be of special interest to HSI practitioners systems engineers and managers as well as government and industry decision makers who must weigh the recommendations of all multidisciplines contributing to systems performance safety and costs in order to make sound systems acquisition decisions

Human Factors in Multi-Crew Flight Operations Harry W. Orlady, 2017-07-05 With the pace of ongoing technological and teamwork evolution across air transport there has never been a greater need to master the application and effective implementation of leading edge human factors knowledge Human Factors in Multi Crew Flight Operations does just that Written from the perspective of the well informed pilot it provides a vivid practical context for the appreciation of Human Factors pitched at a level for those studying or engaged in current air transport operations Features Include A unique seamless text intensively reviewed by subject specialists Contemporary regulatory requirements from ICAO and references to FAA and JAA Comprehensive detail on the evolutionary development of air transport Human Factors Key statistics and analysis on the size and scope of the industry In depth demonstration of the essential contribution of human factors in solving current aviation problems air transport safety and certification Future developments in human

factors as a core technology Extensive appendices glossary and indexes for ease of reference The only book available to map the evolution growth and future expansion of human factors in aviation it will be the text for pilots and flight attendants and an essential resource for engineers scientists managers air traffic controllers regulators educators researchers and serious students *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

Integrating Artificial and Human Intelligence through Agent Oriented Systems

Design Michael E. Miller, Christina F. Rusnock, 2024-08-28 This book departs from the assumption that Artificial Intelligence AI systems will provide a maximum advantage by replacing human cognitive processing Instead this book subscribes to the assumption that AI systems will provide a maximal advantage when the system is specifically designed to augment human intelligence It provides methods for designing effective systems that include one or more humans and one or more AI entities and uses the approach that assumes automation does not replace human activity but fundamentally changes the structure of human work when AI is added to existing systems Integrating Artificial and Human Intelligence through Agent Oriented Systems Design discusses the potential impact of AI on human work and life and explores why teamwork is necessary today for complex work environments The book explains the processes and methods humans employ to effectively team with one another and presents the elements of artificial agents that permit them to function as team members in joint human and artificial teams It discusses design goals and illustrates how the methods that have been used to model the complex interactions among human and artificial agents can be expanded to enable the design of interaction between them to make possible the attainment of the shared goals Model Based Systems Engineering MBSE tools that provide logical designs of human agent teams the AI within these teams training to be deployed for human and artificial agent team members and the interfaces between human and artificial agent team members are all covered MBSE files containing profiles and examples for building MBSE models used in the design approach are featured on the author's website <https://lodesterresci.com> hat This book is an ideal read for students professors engineers and project managers associated with designing and developing AI systems or systems that seek to incorporate AI

Human Performance in Automated and Autonomous Systems

Mustapha Mouloua, Peter A. Hancock, 2019-09-19 This book examines recent advances in theories models and methods relevant to automated and autonomous systems The following chapters provide perspectives on modern autonomous systems such as self driving cars and unmanned aerial systems directly from the professionals working with and studying them

Current theories surrounding topics such as vigilance trust and fatigue are examined throughout as predictors of human performance in the operation of automated systems The challenges related to attention and effort in autonomous vehicles described within give credence to still developing methods of training and selecting operators of such unmanned systems The book further recognizes the need for human centered approaches to design a carefully crafted automated technology that places the human user in the center of that design process Features Combines scientific theories with real world applications where automated technologies are implemented Disseminates new understanding as to how automation is now transitioning to autonomy Highlights the role of individual and team characteristics in the piloting of unmanned systems and how models of human performance are applied in system design Discusses methods for selecting and training individuals to succeed in an age of increasingly complex human machine systems Provides explicit benchmark comparisons of progress across the last few decades and identifies future prognostications and the constraints that impinge upon these lines of progress Human Performance in Automated and Autonomous Systems Current Theory and Methods illustrates the modern scientific theories and methods to be applied in real world automated technologies

Human Factors in Aviation Earl L. Wiener, David C. Nagel, 1988 Since the 1950s a number of specialized books dealing with human factors has been published but very little in aviation Human Factors in Aviation is the first comprehensive review of contemporary applications of human factors research to aviation A must for aviation professionals equipment and systems designers pilots and managers with emphasis on definition and solution of specific problems General areas of human cognition and perception systems theory and safety are approached through specific topics in aviation behavioral analysis of pilot performance cockpit automation advancing display and control technology and training methods

Scientific and Technical Aerospace Reports, 1991 Behavior Trees for Mission Management of High-Altitude Pseudo-Satellites Andreas Klöckner, 2016-11-01 High altitude pseudo satellites currently require large crews of highly trained personnel In order for these platforms to become commercially viable it is imperative that mission level tasks are automated in a mission management system while maintaining flight safety The new method of behavior trees is investigated for this purpose and extended with proper initialization continuous time processing and modular stateful tasks The approach is implemented in the Modelica environment and evaluated in a complex mission Simulation

Decision Making in Aviation Don Harris, 2017-07-05 Decision making pervades every aspect of life people make hundreds of decisions every day The vast majority of these are trivial and without a right or wrong answer In some respects there is also nothing extraordinary about pilot decision making It is only the setting that is different the underlying cognitive processes are just the same However it is the context and the consequences of a poor decision which serve to differentiate aeronautical decision making Decisions on the flight deck are often made with incomplete information and while under time pressure The implications for inadequate performance is much more serious than in many other professions Poor decisions are implicated in over half of all aviation accidents This volume contains key papers published over the last 25

years providing an overview of the major paradigms by which aeronautical decision making has been investigated Furthermore decision making does not occur in isolation It is a joint function of the flight tasks knowledge equipment on the flight deck and other stressors In this volume of collected papers works from leading authors in the field consider all these aspects of aeronautical decision making Handbook of Applied Cognition Francis T. Durso, 2007-02-06 Written by a team of leading international researchers under the guidance of Frank Durso the second edition of the Handbook of Applied Cognition brings together the latest research into this challenging and important field and is presented across thirty stimulating and accessible chapters Stewarded by experienced editors from around the globe the handbook has been fully updated with eleven new chapters covering materials that focus on the topics critical to understanding human mental functions in complex environments It is an essential single source reference for researchers cognitive engineers and applied cognitive psychologists as well as advanced students in the flourishing field of applied cognition **Human Factors in Aviation and Aerospace** Joseph Keebler, Elizabeth H. Lazzara, Katherine Wilson, Elizabeth L. Blickensderfer, 2022-10-26 Doody's Core Titles 2024 in Occupational and Environmental Medicine This third edition of Human Factors in Aviation and Aerospace is a fully updated and expanded version of the highly successful second edition Written for the widespread aviation community including students engineers scientists pilots managers government personnel etc this edition continues to offer a comprehensive overview including pilot performance human factors in aircraft design and vehicles and systems With new editors this edition adds chapters on aviator attention and perception accident investigations automated systems in civil transport airplanes and aerospace Multicontributed by leading professionals in the field this book is the ultimate resource for anyone in the aviation and aerospace industries Uses real world case examples of dangers and solutions Includes a new chapter on spaceflight human factors and decision making Examines future directions for automated systems in two new separate chapters *Service Oriented, Holonic and Multi-agent Manufacturing Systems for Industry of the Future* Theodor Borangiu, Damien Trentesaux, Paulo Leitão, Olivier Cardin, Laurent Joblot, 2022-06-02 This volume gathers the peer reviewed papers presented at the 11th edition of the International Workshop on Service oriented Holonic and Multi Agent Manufacturing Systems for the Industry of the Future SOHOMA 21 organized on 18-19 November 2021 by the Arts et Métiers Institute of Technology of Cluny France in collaboration with University Politehnica of Bucharest the CIMR Research Centre in Computer Integrated Manufacturing and Robotics Polytechnic University Hauts de France the LAMIH Laboratory of Industrial and Human Automation Control Mechanical Engineering and Computer Science and Polytechnic Institute of Bragança the CeDRI Research Centre in Digitalization and Intelligent Robotics *Report on the Interfaces Between Flightcrews and Modern Flight Deck Systems* United States. Federal Aviation Administration. Human Factors Team, 1996 *Information Ergonomics* Michael Stein, Peter Sandl, 2012-03-30 The variety and increasing availability of hypermedia information systems which are used in stationary applications like operators consoles as well as mobile systems e.g. driver

information and navigation systems in automobiles form a foundation for the mediatization of the society From the human engineering point of view this development and the ensuing increased importance of information systems for economic and private needs require careful deliberation of the derivation and application of ergonomics methods particularly in the field of information systems This book consists of two closely intertwined parts The first theoretical part defines the concept of an information system followed by an explanation of action regulation as well as cognitive theories to describe man information system interaction A comprehensive description of information ergonomics concludes the theoretical approach In the second practically oriented part of this book authors from industry as well as from academic institutes illustrate the variety of current information systems taken from different fields of transportation i e aviation automotive and railroad The reader thus gains an overview of various applications and their context of use as well as similarities and differences in design This does not only include a description of the different information systems but also places them in the context of the theories and models which were presented in the first part of this book

Risk Assessment and Management in Pervasive Computing: Operational, Legal, Ethical, and Financial Perspectives Godara, Varuna, 2008-10-31 Provides extensive information about pervasive computing and its implications from various perspectives so that current and future pervasive service providers can make responsible decisions about where when and how to use this technology

Cyber-Physical-Human Systems Anuradha M. Annaswamy, Pramod P. Khargonekar, Françoise Lamnabhi-Lagarrigue, Sarah K. Spurgeon, 2023-06-08 Cyber Physical Human Systems A comprehensive edited volume exploring the latest in the interactions between cyber physical systems and humans In Cyber Physical Human Systems Fundamentals and Applications a team of distinguished researchers delivers a robust and up to date volume of contributions from leading researchers on Cyber Physical Human Systems an emerging class of systems with increased interactions between cyber physical and human systems communicating with each other at various levels across space and time so as to achieve desired performance related to human welfare efficiency and sustainability The editors have focused on papers that address the power of emerging CPHS disciplines all of which feature humans as an active component during cyber and physical interactions Articles that span fundamental concepts and methods to various applications in engineering sectors of transportation robotics and healthcare and general socio technical systems such as smart cities are featured Together these articles address challenges and opportunities that arise due to the emerging interactions between cyber physical systems and humans allowing readers to appreciate the intersection of cyber physical system research and human behavior in large scale systems In the book readers will also find A thorough introduction to the fundamentals of cyber physical human systems In depth discussions of cyber physical human systems with applications in transportation robotics and healthcare A comprehensive treatment of socio technical systems including social networks and smart cities Perfect for cyber physical systems researchers academics and graduate students Cyber Physical Human Systems Fundamentals and Applications will also earn a place in the libraries of research and development professionals working in

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