



# Human Centered Automation

a philosophy for automation in aviation

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# Principles Of Human Centered Aviation Automation

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## **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

*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>. 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 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. **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

*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-Lagarigue, 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 industry and government agencies

Lawfully Using Autonomous Weapon Technologies Jonathan Kwik, 2024-08-02 This monograph provides a practical and operational perspective to the question of how to lawfully employ autonomous weapon systems AWS from the point of view of the technology s end users field commanders While there is international consensus that targeting rules such as proportionality and precautions must be respected when using AWS there is legal and practical ambiguity as to how to translate this normative commitment into practice How are commanders in the field when guns are already blazing expected to exercise command and control when ordering AWS attacks and ensure that their targeting obligations remain fulfilled The book discusses how commanders can use existing targeting frameworks to ensure that their use of AWS remains in compliance with the rules governing the conduct of hostilities It invites the reader to step into the shoes of the military commander with all the operational pressure and uncertainty inherent to this position and explores amongst others How to maintain control of AWS throughout a targeting cycle How to make informed and reasoned deployment decisions by analysing information related to the technical parameters of the AWS the characteristics of the operational environment and enemy countermeasures Under which circumstances AWS may not be used under targeting rules such as indiscriminate attack proportionality and the duty to cancel suspend What extra precautionary measures unique to AWS technology can and should be employed When it is militarily desirable to employ AWS over other alternatives and Under what circumstances criminal liability may be attributed for AWS related harm It offers both academic and practical outputs new legal and doctrinal insights on the technology that is useful for future legal developments and workable recommendations and efficient flowcharts that can be adopted by commanders military organisations or policymakers to ensure IHL compliant deployment of AWS Dr Jonathan Kwik is a researcher at the T M C Asser Institute in The Hague specialised in artificial intelligence and targeting law and is a member of the Board of Experts of the Asia Pacific Journal of International Humanitarian Law

**Operator Functional State** G. Robert J. Hockey, 2003

**Artificial Intelligence in HCI** Helmut Degen, Lauren Reinerman-Jones, 2020-07-10 This book constitutes the refereed proceedings of the First International Conference on Artificial Intelligence in HCI AI HCI 2020 held as part of the 22nd International Conference on Human Computer Interaction HCII 2020 in July 2020 The conference was planned to be held in Copenhagen Denmark but

had to change to a virtual conference mode due to the COVID 19 pandemic The conference presents results from academic and industrial research as well as industrial experiences on the use of Artificial Intelligence technologies to enhance Human Computer Interaction From a total of 6326 submissions a total of 1439 papers and 238 posters has been accepted for publication in the HCII 2020 proceedings The 30 papers presented in this volume were organized in topical sections as follows Human Centered AI and AI Applications in HCI pical sections as follows Human Centered AI and AI Applications in HCI

Contemporary Ergonomics 1999 Margaret Hanson,2004-01-14 The annually released proceedings of the UK s Ergonomics Society annual conference This book continues the long association between Taylor Francis and the Ergonomics Society

*Augmented Cognition. Human Cognition and Behavior* Dylan D. Schmorow,Cali M. Fidopiastis,2020-07-10 This book constitutes the refereed proceedings of 14th International Conference on Augmented Cognition AC 2020 held as part of the 22nd International Conference on Human Computer Interaction HCII 2020 in July 2020 The conference was planned to be held in Copenhagen Denmark but had to change to a virtual conference mode due to the COVID 19 pandemic From a total of 6326 submissions a total of 1439 papers and 238 posters has been accepted for publication in the HCII 2020 proceedings The 21 papers presented in this volume were organized in topical sections as follows cognitive modeling perception emotion and interaction electroencephalography and BCI and AI and augmented cognition

Contemporary Issues in Human Factors and Aviation Safety Helen C. Muir,Don Harris,2017-03-02 Every issue of Ashgate s Human Factors and Aerospace Safety An International Journal publishes an invited critical review of a key area from a widely respected researcher To celebrate a successful first three years of the journal and to make these papers available to a wider audience they have been collated here into a single volume The book is divided into three sections with articles addressing safety issues in flight deck design aviation operations and training and air traffic management These articles describe the state of current research within a practical context and present a potential future research agenda Contemporary Issues in Human Factors and Aviation Safety will appeal to both professionals and researchers in aviation and associated industries who are interested in learning more about current issues in flight safety

**Engineering Psychology and Cognitive Ergonomics** Don Harris,2015-07-20 This book constitutes the refereed proceedings of the 12th International Conference on Engineering Psychology and Cognitive Ergonomics EPCE 2015 held as part of the 17th International Conference on Human Computer Interaction HCII 2015 held in Los Angeles CA USA in August 2015 The total of 1462 papers and 246 poster papers presented at the HCII 2015 conferences was carefully reviewed and selected from 4843 submissions These papers address the latest research and development efforts and highlight the human aspects of 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 The 49 contributions included in the EPCE proceedings were organized in the following topical sections cognitive aspects of display and information design applied



cognitive psychology safety risk and human reliability and aviation and space safety

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