

Transfer of Manual Flying Skills from PC-Based Simulation to Actual Flight – A Comparison of In-Flight Measured Data and Instructor Ratings

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ABSTRACT

Three groups of novice pilots received training to fly aerobatic maneuvers in a light aircraft. Trainees in the control group received in-flight instruction and were given the usual briefings before each flight. Trainees in the two experimental groups received extra training: each in-flight lesson was preceded by PC-based simulated flight. A total of 2053 maneuvers were analyzed on the basis of both flight-data recordings and instructor ratings. We hypothesized that complex manual flying skills, learned on the ground, transfer to the aircraft. The results provide no objective support for this hypothesis. There were no significant differences in flying skills between the three groups as measured by the flight-data recordings. However, both experimental (PC-) groups managed to fly significantly more maneuvers in the same amount of flight time in the aircraft. Differences between flight-data recordings and instructor ratings are analyzed in detail. In the discussion, we compare the findings with published transfer-experiments with PC-based simulation.

1.0 INTRODUCTION

1.1 Low-Fidelity Training In Flight Instruction

Traditionally, the design of flight simulators for pilot training has been based on the assumption that the more a simulator behaves, responds, feels and looks like a real aircraft, the better will be the training. This is what we call the 'high-fidelity view of flight simulation'. However, this view has changed somewhat over the last few decades. Positive transfer to the actual in-flight environment has been demonstrated with low-fidelity PC-based simulation training in a number of experimental transfer studies ([1], [2], [3], [4], [5], [6], [7], [8], [9], [10]) that focus on the initial stage of flight training. All these studies demonstrated positive transfer for standard flying tasks, such as basic instrument tasks, visual landings, visual turns, etc. in the initial stage of flight training.

1.2 Moving Away From Fidelity

Intentional deviations from fidelity may even contribute positively to transfer, as was demonstrated by [8]. This evidence is supported by other transfer experiments that fall outside the PC-based category. An example is transfer to landing skills under crosswind conditions, which was higher after training without crosswind than after training with crosswind [11]. A number of experiments with 'augmenting' visual objects (such as

Roessingh, J.J. (2000) Transfer of Manual Flying Skills from PC-Based Simulation to Actual Flight – A Comparison of In-Flight Measured Data and Instructor Ratings. In *The Effectiveness of Modelling and Simulation – From Anecdotal to Substantive Evidence* (pp. 14-1 – 14-22). Meeting Proceedings RTD-MP-MSG-035, Paper 14. Neuilly-sur-Seine, France: RTD. Available from: <http://www.rtd.nato.int/abstracts.asp>.

Transfer Of Manual Flying Skills From Pc

Keith K. Niall



Transfer Of Manual Flying Skills From Pc:

Aviation Psychology and Human Factors Monica Martinussen, David R. Hunter, 2017-07-12 This book covers the application of psychological principles and techniques to situations and problems of aviation It offers an overview of the role psychology plays in aviation system design selection and training of pilots characteristics of pilots safety and passenger behavior It covers concepts of psychological research and data analysis and shows how these tools are used in the development of new psychological knowledge The new edition offers material on physiological effects on pilot performance a new chapter on aviation physiology more material on fatigue safety culture mental health and safety as well as practical examples and exercises after each chapter Work Group Learning Valerie I. Sessa, Manuel London, 2008 First Published in 2007 Routledge is an imprint of Taylor Francis an informa company

Learning, Training, and Development in Organizations Steve W.J. Kozlowski, Eduardo Salas, 2009-08-06 This scholarly book in SIOP's Organizational Frontier series looks at research on enhancing knowledge acquisition and its application in organizations It concentrates on training design and delivery given the changing nature of work and organizations Now that work is increasingly complex there is greater emphasis on expertise and cognitive skills Advances in technology such as computer simulations and web based training are necessitating a more active role for the learner in the training process In the broad context of the organization systems this book promotes learning and development as a continuous lifelong endeavor

Development of Professional Expertise K. Anders Ericsson, 2009-06-22 Professionals such as medical doctors aeroplane pilots lawyers and technical specialists find that some of their peers have reached high levels of achievement that are difficult to measure objectively In order to understand to what extent it is possible to learn from these expert performers for the purpose of helping others improve their performance we first need to reproduce and measure this performance This book is designed to provide the first comprehensive overview of research on the acquisition and training of professional performance as measured by objective methods rather than by subjective ratings by supervisors In this collection of articles the world's foremost experts discuss methods for assessing the experts knowledge and review our knowledge on how we can measure professional performance and design training environments that permit beginning and experienced professionals to develop and maintain their high levels of performance using examples from a wide range of professional domains *Handbook of Research on Educational Communications and Technology* David Jonassen, Michael J. Spector, Marcy Driscoll, M. David Merrill, Jeroen van Merriënboer, Marcy P. Driscoll, 2008-09-25 First Published in 2008 Routledge is an imprint of Taylor Francis an informa company

Vision and Displays for Military and Security Applications Keith K. Niall, 2010-03-10 Realistic and immersive simulations of land sea and sky are requisite to the military use of visual simulation for mission planning Until recently the simulation of natural environments has been limited first of all by the pixel resolution of visual displays Visual simulation of those natural environments has also been limited by the scarcity of detailed and accurate physical descriptions

of them Our aim has been to change all that To this end many of us have labored in adjacent fields of psychology engineering human factors and computer science Our efforts in these areas were occasioned by a single question how distantly can fast jet pilots discern the aspect angle of an opposing aircraft in visual simulation This question needs some elaboration it concerns fast jets because those simulations involve the representation of high speeds over wide swaths of landscape It concerns pilots since they begin their careers with above average acuity of vision as a population And it concerns aspect angle which is as much as to say that the three dimensional orientation of an opposing aircraft relative to one's own as revealed by motion and solid form v vi Preface The single question is by no means simple It demands a criterion for eye limiting resolution in simulation That notion is a central one to our study though much abused in general discussion The question at hand as it was posed in the 1990s has been accompanied by others Learning by Playing Fran Blumberg, 2014 There is a growing recognition in the learning sciences that video games can no longer be seen as impediments to education but rather they can be developed to enhance learning In Learning By Playing a diverse group of contributors provide perspectives on the most current thinking concerning the ramifications of leisure video game play for academic classroom learning Practical Human Factors for Pilots Capt. David Moriarty, 2014-12-30 Practical Human Factors for Pilots bridges the divide between human factors research and one of the key industries that this research is meant to benefit civil aviation Human factors are now recognized as being at the core of aviation safety and the training syllabus that flight crew trainees have to follow reflects that This book will help student pilots pass exams in human performance and limitations successfully undergo multi crew cooperation training and crew resource management CRM training and prepare them for assessment in non technical skills during operator and license proficiency checks in the simulator and during line checks when operating flights Each chapter begins with an explanation of the relevant science behind that particular subject along with mini case studies that demonstrate its relevance to commercial flight operations Of particular focus are practical tools and techniques that students can learn in order to improve their performance as well as training tips for the instructor Provides practical evidence based guidance on issues often at the root of aircraft accidents Uses international regulatory material Includes concepts and theories that have practical relevance to flight operations Covers relevant topics in a step by step manner describing how they apply to flight operations Demonstrates how human decision making has been implicated in air accidents and equips the reader with tools to mitigate these risks Gives instructors a reliable knowledge base on which to design and deliver effective training Summarizes the current state of human factors training and assessment *The Glass Cage: How Our Computers Are Changing Us* Nicholas Carr, 2014-09-29 At once a celebration of technology and a warning about its misuse The Glass Cage will change the way you think about the tools you use every day In The Glass Cage best selling author Nicholas Carr digs behind the headlines about factory robots and self driving cars wearable computers and digitized medicine as he explores the hidden costs of granting software dominion over our work and our leisure Even as they bring ease to our lives

these programs are stealing something essential from us Drawing on psychological and neurological studies that underscore how tightly people's happiness and satisfaction are tied to performing hard work in the real world Carr reveals something we already suspect shifting our attention to computer screens can leave us disengaged and discontented From nineteenth century textile mills to the cockpits of modern jets from the frozen hunting grounds of Inuit tribes to the sterile landscapes of GPS maps *The Glass Cage* explores the impact of automation from a deeply human perspective examining the personal as well as the economic consequences of our growing dependence on computers With a characteristic blend of history and philosophy poetry and science Carr takes us on a journey from the work and early theory of Adam Smith and Alfred North Whitehead to the latest research into human attention memory and happiness culminating in a moving meditation on how we can use technology to expand the human experience

Coping with Computers in the Cockpit Sidney Dekker, Erik Hollnagel, 2018-12-17 First published in 1999 this volume examined how increasing cockpit automation in commercial fleets across the world has had a profound impact on the cognitive work that is carried out on the flight deck Pilots have largely been transformed into supervisory controllers managing a suite of human and automated resources Operational and training requirements have changed and the potential for human error and system breakdown has shifted This compelling book critically examines how airlines regulators educators and manufacturers cope with these and other consequences of advanced aircraft automation

Human factors of cockpit automation Earl L. Wiener, 1985

The Design of Human-Centered Artificial Intelligence for the Workplace Constantinos K. Coursaris, Joerg Beringer, Pierre-Majorique Léger, Burak Öz, 2025-08-02 Rapid advances in artificial intelligence AI are manifesting in increasingly sophisticated technologies and systems contributing to the digital transformation of organizations These technological innovations involve the use of automation agents adding value through increased efficiency effectiveness service quality and other performance related dimensions Motivated by the possibilities afforded by AI in organizational contexts of use as well as by the challenges associated with AI this book provides a comprehensive view of the considerations involved in designing AI enabled systems their application in the workplace and the corresponding user experience To this end the book presents conceptual and empirical scientific perspectives on the design of human centered AI as well as case studies from multiple industries ranging from aerospace and automotive to retail finance and healthcare These perspectives and evidence enable readers to consider and plan their own use cases for human centered AI in the workplace The book will be of interest to researchers and practitioners alike involved in the governance design development implementation and maintenance of human AI driven systems

Human Performance in General Aviation David O'Hare, 2017-03-02 This is the first available edited collection of chapters on human performance in general aviation Each chapter has been written by someone with knowledge of both the research literature and the operational background of general aviation Chapters are designed to survey the current state of knowledge in areas critical to general aviation and to spell out both the operational implications of this knowledge and the

directions needed for future research Topics covered include strategies for flight instruction the development of computer based training stress and decision making skill development the involvement of general aviation pilots in incidents and accidents human factors implications of GPS use and the future of aircraft design and development in general aviation The book provides an authoritative outline of currently applicable human factors knowledge for general aviation and a valuable guide to future developments It features a foreword by Dr Stan Roscoe **Government Reports Announcements &**

Index ,1976 Monthly Catalog of United States Government Publications ,1971 *Government reports annual index*

,199? **Resources in Education** ,1995 **Flying Magazine** ,1965-09 Engineering Psychology and Cognitive

Ergonomics Don Harris,Wen-Chin Li,2023-07-08 This two volume set LNCS 14017 14018 constitutes the thoroughly refereed proceedings of the 20th International Conference on Engineering Psychology and Cognitive Ergonomics EPCE 2023 held as part of HCI International 2023 which took place in Copenhagen Denmark during July 23 28 2023 A total of 1578 papers and 396 posters have been accepted for publication in the HCII 2023 proceedings from a total of 7472 submissions The papers included in the HCII EPCE volume set were organized in topical sections as follows Part I Stress fatigue and mental workload human performance and error management resilience and performance in demanding contexts Part II Human factors in aviation human factors in operations management human centered design of autonomous systems *Government Reports Annual Index: Keyword A-L* ,1986

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