

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>.

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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.

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.

Work Group Learning Valerie I. Sessa, Manuel London, 2008 First Published in 2007 Routledge is an imprint of Taylor Francis, an informa company.

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. Sponsored by the Association of Educational Communication and Technology (AECT), the third edition of this groundbreaking Handbook continues the mission of its predecessors to provide up-to-date summaries and syntheses of recent research pertinent to the educational uses of information and communication technologies. In addition, this new edition has been expanded from forty-one to fifty-six chapters organized into the following six sections: foundations, strategies, technologies, models, design, and

development and methodological issues In response to feedback from users of the second edition the following changes have been built into this edition More Comprehensive topical coverage has been expanded from forty one to fifty six chapters and includes many more chapters on technology than in previous editions Restructured Chapters this edition features shorter chapters with introductory abstracts keyword definitions and extended bibliographies More International more than 20% of the contributing authors and one of the volume editors are non American Theoretical Focus Part 1 provides expanded cross disciplinary theoretical coverage Methodological Focus an extended methodological chapter begins with a comprehensive overview of research methods followed by lengthy separately authored sections devoted to specific methods Research and Development Focus another extended chapter with lengthy separately authored sections covers educational technology research and development in different areas of investigation e g experimental methods to determine the effectiveness of instructional designs technology based instructional interventions in research research on instructional design models

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

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

Human factors of cockpit automation Earl L. Wiener, 1985 *Flying Magazine*, 1966-03 *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 **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 **Flying Magazine** ,1966-02 [Flying Magazine](#) ,1988-10 [Resources in Education](#) ,1995 **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 [Flying Magazine](#) ,1965-12 **Weekly World News** ,1991-07-23 Rooted in the creative success of over 30 years of supermarket tabloid publishing the Weekly World News has been the world s only reliable news

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