

# QIIP

## QUANTIFYING HUMAN INFORMATION PROCESSING

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POTOMAC INSTITUTE FOR POLICY STUDIES



# Quantifying Human Information Processing

**Ulrich Hauptmanns, Wolfgang Werner**



## **Quantifying Human Information Processing:**

*Quantifying Human Information Processing* Dennis K. McBride, Dylan Schmorrow, 2005-01-01 Rapid advances in IT that allow complex information to be presented in high volume and density are challenging human ability to absorb and analyze data as never before Designing technologies and systems to provide optimal sensory information to human users will be increasingly important But to do this quantitative relationships between brain behavior at a molecular level and observable human behavior must be better identified This was previously considered to be a futuristic and somewhat unrealistic goal however recent advances in cognitive neuroscience have provided new opportunities for researchers Refinements in imaging technology and simulation tools and the learning yielded from them provided the Quantifying Human Information Processing QHIP research teams strong starting points from which to further assess the ability to quantify human information processing Led by experts in psychology cognitive science and information processing among other fields researchers sought to quantify the information flow in the nervous system the limits of that flow and how it is affected by emotions The QHIP effort looked at specific aspects of the brain s information processing ability including measuring task related and unrelated thought assessing mental workload and finding optimal information processing The researchers found important indicators of both the capacity and limits of the human brain and offer new ways to think about the brain This work is a valuable contribution to the fields of psychology neuroscience and cognition and will serve as a resource for human factors engineers designing the next generation of information safety analysis and control systems because it starts to answer how to maximize information processing without overloading the central nervous system [Quantifying Human Resources](#) Clotilde

Coron, 2020-04-09 Since the late 20th Century Human Resources HR has had a legal obligation to produce reports for management in most firms However these have long been considered restrictive and are seldom used to improve decision making More recently the emergence of analytics Big Data and algorithms has enabled a reconfiguration of the uses of quantification in HR Accompanied by empirical examples this book presents and defines the different tools and uses of quantification in HR It studies the effect of these tools on decision making and without subscribing to the myth of objective and rational quantification presents the contributions and limits of the use of data in HR and analyzes the potential risks of excessive quantification It also discusses the appropriation of these tools by the various players in a company and examines their effects on the position of HR **The PSI Handbook of Virtual Environments for Training and Education** Joseph V. Cohn, Dylan Schmorrow, Denise Nicholson, 2008-11-30 The increasingly complex environment of the 21st century demands unprecedented knowledge skills and abilities for people from all walks of life One powerful solution that blends the science of learning with the technological advances of computing is Virtual Environments In the United States alone the Department of Defense has invested billions of dollars over the past decade to make this field and its developments as effective as possible This 3 volume work provides for the first time comprehensive coverage of the many different domains that must be

integrated for Virtual Environments to fully provide effective training and education The first volume is dedicated to a thorough understanding of learning theory requirements definition and performance measurement providing insight into the human centric specifications the VE must satisfy to succeed Volume II provides the latest information on VE component technologies and Volume III offers discussion of an extensive collection of integrated systems presented as VE use cases and results of effectiveness evaluation studies The text includes emerging directions of this evolving technology from cognitive rehabilitation to the next generation of museum exhibitions Finally the handbook offers a glimpse into the future with this fascinating technology This groundbreaking set will interest students scholars and researchers in the fields of military science technology computer science business law enforcement cognitive psychology education and health Topics addressed include guidance and interventions using VE as a teaching tool what to look for in terms of human centered systems and components and current training uses in the Navy Army Air Force and Marines Game based and long distance training are explained as are particular challenges such as the emergence of VE sickness Chapters also highlight the combination of VE and cybernetics robotics and artificial intelligence

*Performance Under Stress* James Szalma, Peter A Hancock, 2018-10-09

The world is a dangerous place and recent events have served to make it less safe There are many arenas of conflict and even combat across the world Such situations are the quintessential expression of stress you stand in imminent danger and live with the knowledge that you may be attacked injured or even killed at any moment How do people perform under these conditions How do they keep a heightened level of vigilance when nothing may happen in their immediate location for weeks or even months What happens when the bullets actually start flying How is it you distinguish friend from foe and each from innocent bystanders when in immediate peril of your life Can we design technology to help people make good decisions in these ultimately hazardous situations To what degree does your membership in a team act to dissipate these particular effects Can we generate sufficiently stressful field exercises to simulate these conditions and can we train and or select those most able to withstand such adverse conditions How will the next generation of servicemen deal with these inherent problems These are the sorts of questions that *Performance Under Stress* addresses This book is derived largely from a multiple year multiple university initiative MURI on stress and soldier performance on the modern electronic battlefield It involved leading researchers from many institutions who have brought their individual expertise to bear on these crucial contemporary concerns United by a common research framework these groups attacked the issue from different methodological and conceptual approaches ranging from traditional laboratory modeling and experimentation to realistic simulations from involved field exercises to personal experiences of actual combat conditions The insights generated have been distilled and presented as a benchmark of current understanding and provide future directions for research in this arena Although this work focuses on soldier stress and soldier performance the principles that are derived extend well beyond this single application Their findings can be applied to people facing the demands of the business world or research

as much as to those who meet life or death situations such as homeland security first responders and law enforcement personnel

**Foundations of Augmented Cognition** Dylan D. Schmorrow, Leah M. Reeves, 2007-08-24 This book constitutes the refereed proceedings of the Third International Conference on Augmented Cognition FAC 2007 held in Beijing China in July 2007 within the framework of the 12th International Conference on Human Computer Interaction HCII 2007 with 8 other thematically similar conferences It covers general Augmented Cognition methods and techniques and discusses various Augmented Cognition applications

**Mind, Machine and Morality** Peter A. Hancock, 2017-03-02 Technology is our conduit of power In our modern world technology is the gatekeeper deciding who shall have and who shall have not Either technology works for you or you work for technology It shapes the human race just as much as we shape it But where is this symbiosis going Who provides the directions the intentions the goals of this human machine partnership Such decisions do not derive from the creators of technology who are enmeshed in their individual innovations They neither come from our social leaders who possess only sufficient technical understanding to react to innovations not to anticipate or direct their progress Neither is there evidence of some omnipotent invisible hand the simple fact is that no one is directing this enterprise In Mind Machine and Morality Peter Hancock asks questions about this insensate progress and has the temerity to suggest some cognate answers He argues for the unbreakable symbiosis of purpose and process and examines the dangerous possibilities that emerge when science and purpose meet Historically this work is a modern day child of Bacon's hope for the Great Instauration However unlike its forebear the focus here is on human machine systems The emphasis centers on the conception that the active extensive face of modern philosophy is technology Whatever we are to become is bound up not only in our biology but critically in our technology also And to achieve rational progress we need to articulate manifest purpose This book is one step along the purposive road Drawing together his many seminal writings on human machine interaction and adapting these works specifically for this collection Peter Hancock provides real food for thought delighting readers with his unique philosophical perspective and outstanding insights This is theoretical work of the highest order and will open minds accordingly

**The Human-Computer Interaction Handbook** Andrew Sears, Julie A. Jacko, 2007-09-19 This second edition of The Human Computer Interaction Handbook provides an updated comprehensive overview of the most important research in the field including insights that are directly applicable throughout the process of developing effective interactive information technologies It features cutting edge advances to the scientific

**Foundations of Augmented Cognition. Directing the Future of Adaptive Systems** Dylan D. Schmorrow, Cali M. Fidopiastis, 2011-06-27 This book constitutes the refereed proceedings of the 6th International Conference on Augmented Cognition FAC 2011 held in Orlando FL USA in July 2011 within the framework of the 14th International Conference on Human Computer Interaction HCII 2011 with 11 other thematically similar conferences The 75 full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical parts on theories models and technologies for augmented

cognition neuroscience and brain monitoring augmented cognition social computing and collaboration augmented cognition for learning augmented cognition and interaction and augmented cognition in complex environments Haptics: Perception, Devices, Mobility, and Communication Poika Isokoski, Jukka Springare, 2012-05-30 This book and its companion volume LNCS 7282 and 7283 constitute the refereed proceedings of the 8th International Conference EuroHaptics 2012 held in Tampere Finland in June 2012 The 99 papers 56 full papers 32 short papers and 11 demo papers presented were carefully reviewed and selected from 153 submissions Part I contains the full papers whereas Part II contains the short papers and the demo papers

**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

**Detection and Estimation of Working Memory States and Cognitive Functions Based on Neurophysiological Measures** Felix Putze, Christian Mühl, Fabien Lotte, Stephen Fairclough, Christian Herff, 2019-02-05 Executive cognitive functions like working memory determine the success or failure of a wide variety of different cognitive tasks such as problem solving navigation or planning Estimation of constructs like working memory load or memory capacity from neurophysiological or psychophysiological signals would enable adaptive systems to respond to cognitive states experienced by an operator and trigger responses designed to support task performance e.g. by simplifying the exercises of a tutor system when the subject is overloaded or by shutting down distractions from the mobile phone The determination of cognitive states like working memory load is also useful for automated testing assessment or for usability evaluation While there exists a large body of research work on neural and physiological correlates of cognitive functions like working memory activity fewer publications deal with the application of this research with respect to single trial detection and real time estimation of cognitive functions in complex realistic

scenarios Single trial classifiers based on brain activity measurements such as electroencephalography functional near infrared spectroscopy physiological signals or eye tracking have the potential to classify affective or cognitive states based upon short segments of data For this purpose signal processing and machine learning techniques need to be developed and transferred to real world user interfaces The goal of this Frontiers Research Topic was to advance the State of the Art in signal based modeling of cognitive processes We were especially interested in research towards more complex and realistic study designs for example collecting data in the wild or investigating the interaction between different cognitive processes or signal modalities Bringing together many contributions in one format allowed us to look at the state of convergence or diversity regarding concepts methods and paradigms Time International Society for the Study of Time. Conference,2010 This thirteenth volume in the interdisciplinary Study of Time series explores the way in which limits and constraints impact upon our understanding of time **Measuring Human Capabilities** National Research Council,Division of Behavioral and Social Sciences and Education,Board on Behavioral, Cognitive, and Sensory Sciences,Committee on Measuring Human Capabilities: Performance Potential of Individuals and Collectives,2015-04-10 Every year the U S Army must select from an applicant pool in the hundreds of thousands to meet annual enlistment targets currently numbering in the tens of thousands of new soldiers A critical component of the selection process for enlisted service members is the formal assessments administered to applicants to determine their performance potential Attrition for the U S military is hugely expensive Every recruit that does not make it through basic training or beyond a first enlistment costs hundreds of thousands of dollars Academic and other professional settings suffer similar losses when the wrong individuals are accepted into the wrong schools and programs or jobs and companies Picking the right people from the start is becoming increasingly important in today s economy and in response to the growing numbers of applicants Beyond cognitive tests of ability what other attributes should selectors be considering to know whether an individual has the talent and the capability to perform as well as the mental and psychological drive to succeed Measuring Human Capabilities An Agenda for Basic Research on the Assessment of Individual and Group Performance Potential for Military Accession examines promising emerging theoretical technological and statistical advances that could provide scientifically valid new approaches and measurement capabilities to assess human capability This report considers the basic research necessary to maximize the efficiency accuracy and effective use of human capability measures in the military s selection and initial occupational assignment process The research recommendations of Measuring Human Capabilities will identify ways to supplement the Army s enlisted soldier accession system with additional predictors of individual and collective performance Although the primary audience for this report is the U S military this book will be of interest to researchers of psychometrics personnel selection and testing team dynamics cognitive ability and measurement methods and technologies Professionals interested in of the foundational science behind academic testing job selection and human resources management will also find this report of interest **Grand Successes and Failures in IT:**

**Public and Private Sectors** Yogesh K. Dwivedi, Helle Zinner Henriksen, David Wastell, Rahul De', 2013-06-22 This book constitutes the refereed proceedings of the IFIP WG 8.6 International Working Conference on Transfer and Diffusion of IT TDIT 2013 held in Bangalore India in June 2013. The 35 revised full papers presented together with an invited paper, 12 short papers and 3 poster papers were carefully reviewed and selected from 65 submissions. The full papers are organized in the following topical sections: IS success and failure studies of IT adoption, software development, IT in the public sector and theory and methods.

**Advances in Neuroergonomics and Cognitive Engineering** Hasan Ayaz, Umer Asgher, Lucas Paletta, 2021-07-03 This book offers a broad overview of the field of cognitive engineering and neuroergonomics, covering emerging practices and future trends toward the harmonious integration of human operators and computational systems. It gathers both theoretical and practice-oriented studies on mental workload and stress, activity theory, human reliability, error and risk. It covers applications in various fields and corresponding strategies to make assistive technologies more user-oriented. Further, the book describes key advances in our understanding of cognitive processes, including mechanisms of perception, memory, reasoning, and motor response, with a particular focus on their role in interactions between humans and other elements of computer-based systems. Gathering the proceedings of the AHFE 2021 Conferences on Neuroergonomics and Cognitive Engineering, Industrial Cognitive Ergonomics and Engineering Psychology, and Cognitive Computing and Internet of Things, held virtually on July 25-29, 2021, from the USA, this book offers extensive information and a thought-provoking guide for researchers and practitioners in cognitive engineering, neuroergonomics, and their applications.

**Human Computer Interaction Handbook** Julie A. Jacko, 2012-05-04 Winner of a 2013 CHOICE Outstanding Academic Title Award. The third edition of a groundbreaking reference, *The Human Computer Interaction Handbook: Fundamentals, Evolving Technologies, and Emerging Applications*, raises the bar for handbooks in this field. It is the largest, most complete compilation of HCI theories, principles, advances, case studies, and research. **Handbook of Human Factors and Ergonomics** Gavriel Salvendy, 2012-03-13 The fourth edition of the *Handbook of Human Factors and Ergonomics* has been completely revised and updated. This includes all existing third edition chapters plus new chapters written to cover new areas. These include the following subjects: Managing low back disorder risk in the workplace, Online interactivity, Neuroergonomics, Office ergonomics, Social networking, HF in motor vehicle transportation, User requirements, Human factors and ergonomics in aviation, Human factors in ambient intelligent environments. As with the earlier editions, the main purpose of this handbook is to serve the needs of the human factors and ergonomics researchers, practitioners, and graduate students. Each chapter has a strong theory and scientific base but is heavily focused on real-world applications. As such, a significant number of case studies, examples, figures, and tables are included to aid in the understanding and application of the material covered.

**Neuroscience, Neuroculture, and Neuroethics** James Giordano, Roland Benedikter, John R. Shook, 2024-12-10 Contemporary brain research is challenging Western societal norms by questioning basic cornerstones such as individuality.



freedom rationality solidarity and the concept of the human being in general It is giving way to profound changes in Western concepts of culture and civilization This volume provides a broad overview of the cultural changes incurred by neuroscience and neurotechnology and explores the evolving fields of neuroeconomics neuroreligion neuropolitics and neuroethics It takes a multi disciplinary approach in explaining how neuroscience and neurotechnology will affect society and illustrates how these tools and methods are being used in research and ever expanding practices in varying fields Praise for Neuroscience Neuroculture and Neuroethics A Broad Overview Giordano Benedikter and Shook provide an accessible timely and engaging introduction to the main challenges of neuroscience and neurotechnology for individuals and society It is impressively wide ranging insightfully examining philosophical cultural political and economic dimensions of brain science An especially fascinating aspect of the book is discussion of the implications of bioenhancement for transhumanism and how it could influence how we define who we are Walter Glannon Professor Emeritus of Philosophy University of Calgary Canada This book provides an excellent survey about the challenging Neuro World It reflects the different perspectives which are relevant for modern societies It is full of information to gather additional knowledge on an international and interdisciplinary level Prof Dr Ernst Poppel Professor of Medical Psychology Ludwig Maximilian University LMU of Munich Germany This engaging and highly accessible book offers an excellent short introduction to the powerful impact of neuroscience and neurotechnology upon modern societies Covering a broad range of issues and perspectives from neuroscience social science philosophy and ethics it is eminently suitable for teaching and provides a thought provoking basis for further discussions Kathinka Evers Professor of Philosophy Senior Researcher in Philosophy at the Centre for Research Ethics and Professor Ad Honorem at the Universidad Central de Chile

*Human-Computer Interaction Fundamentals* Andrew Sears, Julie A. Jacko, 2009-03-02 Hailed on first publication as a compendium of foundational principles and cutting edge research The Human Computer Interaction Handbook has become the gold standard reference in this field Derived from select chapters of this groundbreaking and authoritative resource Human Computer Interaction Fundamentals emphasizes emerging topics such as sen Engineering Risks Ulrich Hauptmanns, Wolfgang Werner, 2012-12-06 Encouragement by colleagues and a considerable increase in the use of probabilistic analyses since the publication of the German edition in 1987 have motivated this English version A mere translation was inappropriate because a number of important studies completed in recent years had to be included among them the assessment of the risks of five nuclear power plants in the United States of America and the German Risk Study Phase B The opportunity was taken to elaborate on some concepts which have gained importance of late such as accident management An update of international safety goals was also made however this can only be a momentary view of a field subjected to frequent change Thanks are due to the Springer Verlag for the careful editing and production of the book Kaln Garching Ulrich Hauptmanns March 1990 Wolfgang Werner Preface to the German Edition With the increasing use of complex technologies there is a growing need to evaluate the associated risks The methodology of probabilistic safety and

risk analysis allows predictive valuation of risks Nuclear engineering has been in the forefront of the development and application of this method In the Safety Study on US Power Plants published in 1975 the risk of an entire technology was investigated systematically and quantified for the first time Meanwhile the methods have continuously been improved and applied to a number of nuclear power stations

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### Quantifying Human Information Processing Introduction

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