

Linking Expertise and Naturalistic Decision Making

*Edited by
Eduardo Salas • Gary Klein*

Linking Expertise And Naturalistic Decision Making

**Paul Ward, Jan Maarten
Schraagen, Julie Gore, Emilie M. Roth**

Linking Expertise And Naturalistic Decision Making:

Linking Expertise and Naturalistic Decision Making Eduardo Salas, Gary A. Klein, 2001-07-01 This book contains selected papers presented at the 1998 conference on Naturalistic Decision Making NDM The objectives of the conference were to make American researchers more aware of NDM research being conducted abroad particularly in Europe connect NDM research with work in management and industry to stretch beyond the military and paramilitary focus and formulate a more explicit connection between NDM and expertise These objectives are reflected in the chapters of this volume

Linking Expertise and Naturalistic Decision Making Eduardo Salas, Gary A. Klein, 2001 This book contains selected papers presented at the 1998 conference on Naturalistic Decision Making NDM The objectives of the conference were to make American researchers more aware of NDM research being conducted abroad particularly in Europe connect NDM research with work in management and industry to stretch beyond the military and paramilitary focus and formulate a more explicit connection between NDM and expertise These objectives are reflected in the chapters of this volume

The Oxford Handbook of Organizational Decision Making Gerard P. Hodgkinson, William H. Starbuck, 2008-03-06 The Oxford Handbook of Organizational Decision Making comprehensively surveys theory and research on organizational decision making broadly conceived Emphasizing psychological perspectives while encompassing the insights of economics political science and sociology it provides coverage at the individual group organizational and inter organizational levels of analysis In depth case studies illustrate the practical implications of the work surveyed Each chapter is authored by one or more leading scholars thus ensuring that this Handbook is an authoritative reference work for academics researchers advanced students and reflective practitioners concerned with decision making in the areas of Management Psychology and HRM Contributors Eric Abrahamson Julia Balogun Michael L Barnett Philippe Baumard Nicole Bourque Laure Cabantous Prithviraj Chattopadhyay Kevin Daniels Jerker Denrell Vinit M Desai Giovanni Dosi Roger L M Dunbar Stephen M Fiore Mark A Fuller Michael Shayne Gary Elizabeth George Jean Pascal Gond Paul Goodwin Terri L Griffith Mark P Healey Gerard P Hodgkinson Gerry Johnson Michael Johnson Cramer Alfred Kieser Ann Langley Eleanor T Lewis Dan Lovallo Rebecca Lyons Peter M Madsen A John Maule John M Mezas Nigel Nicholson Gregory B Northcraft David Oliver Annie Pye Karlene H Roberts Jacques Rojot Michael A Rosen Isabelle Royer Eugene Sadler Smith Eduardo Salas Kristyn A Scott Zur Shapira Carolynne Smart Gerald F Smith Emma Soane Paul R Sparrow William H Starbuck Matt Statler Kathleen M Sutcliffe Michal Tamuz Teri Jane Ursacki Bryant Ilan Vertinsky B n dicte Vidaillet Jane Webster Karl E Weick Benjamin Wellstein George Wright Kuo Frank Yu and David Zweig

The Cambridge Handbook of Expertise and Expert Performance K. Anders Ericsson, Robert R. Hoffman, Aaron Kozbelt, 2018-05-17 In this book some of the world's foremost experts on expertise provide scientific knowledge on expertise and expert performance

Blackwell Handbook of Judgment and Decision Making Derek J. Koehler, Nigel Harvey, 2008-04-15 The Blackwell Handbook of Judgment and Decision Making is a state of the art overview of

current topics and research in the study of how people make evaluations draw inferences and make decisions under conditions of uncertainty and conflict Contains contributions by experts from various disciplines that reflect current trends and controversies on judgment and decision making Provides a glimpse at the many approaches that have been taken in the study of judgment and decision making and portrays the major findings in the field Presents examinations of the broader roles of social emotional and cultural influences on decision making Explores applications of judgment and decision making research to important problems in a variety of professional contexts including finance accounting medicine public policy and the law Wiley Handbook of Science and Technology for Homeland Security, 4 Volume Set John G. Voeller,2010-04-12 The Wiley Handbook of Science and Technology for Homeland Security is an essential and timely collection of resources designed to support the effective communication of homeland security research across all disciplines and institutional boundaries Truly a unique work this 4 volume set focuses on the science behind safety security and recovery from both man made and natural disasters has a broad scope and international focus The Handbook Educates researchers in the critical needs of the homeland security and intelligence communities and the potential contributions of their own disciplines Emphasizes the role of fundamental science in creating novel technological solutions Details the international dimensions of homeland security and counterterrorism research Provides guidance on technology diffusion from the laboratory to the field Supports cross disciplinary dialogue in this field between operational R D and consumer communities

Human Performance on the Flight Deck Don Harris,2016-12-05 Taking an integrated systems approach to dealing exclusively with the human performance issues encountered on the flight deck of the modern airliner this book describes the inter relationships between the various application areas of human factors recognising that the human contribution to the operation of an airliner does not fall into neat pigeonholes The relationship between areas such as pilot selection training flight deck design and safety management is continually emphasised within the book It also affirms the upside of human factors in aviation the positive contribution that it can make to the industry and avoids placing undue emphasis on when the human component fails The book is divided into four main parts Part one describes the underpinning science base with chapters on human information processing workload situation awareness decision making error and individual differences Part two of the book looks at the human in the system containing chapters on pilot selection simulation and training stress fatigue and alcohol and environmental stressors Part three takes a closer look at the machine the aircraft beginning with an examination of flight deck display design followed by chapters on aircraft control flight deck automation and HCI on the flight deck Part four completes the volume with a consideration of safety management issues both on the flight deck and across the airline the final chapter in this section looks at human factors for incident and accident investigation The book is written for professionals within the aviation industry both on the flight deck and elsewhere for post graduate students and for researchers working in the area

Human Factors Challenges in Emergency Management Christine Owen,2017-09-29

This book provides an overview of state of the art research that has been conducted within Australia funded by the Bushfire Cooperative Research Centre The chapters source and contextualize their own research practice within the context of the international research literature Therefore while the research has occurred within Australia it will be of particular interest to scholars students and practitioners in a number of other countries particularly within the United States of America and in Europe The fire and emergency services is a particularly large industry in Australia alone it employs 250 000 personnel yet there is very little by way of published human factors books addressing this sector directly Emergency events frequently involve problems for which there may be unanticipated consequences and highly interdependent consequential effects In short emergency events are not necessarily as containable as may be work in other domains As Karl Weick once commented emergency events do not play by the rules This means that these research chapters tell us something about a potential future world of work that is highly dynamic interdependent and for which improvisation and critical thinking and problem solving are necessary pre requisites The discussions about individual and team performance will also be pertinent to others working in similar high reliability high consequence domains The chapters connect into an integrated body of work about individual and group performance and their limitations

Informed by Knowledge Kathleen L. Mosier,Ute M. Fischer,2011-01-07 The focus of this book is on how experts adapt to complexity synthesize and interpret information in context and transform or fuse disparate items of information into coherent knowledge The chapters examine these processes across experts e g global leaders individuals in extreme environments managers police officers pilots commanders doctors inventors across contexts e g space and space analogs corporate organizations command and control crisis and crowd management air traffic control the operating room product development and for both individual and team performance Successful information integration is a key factor in the success of diverse endeavors including team attempts to climb Mt Everest crowd control in the Middle East and remote drilling operations This volume is divided into four sections each with a specific focus on an area of expert performance resulting in a text that covers a wide range of useful information These sections present well researched discussions such as the management of complex situations in various fields and decision contexts technological and training approaches to facilitate knowledge management by individual experts and expert teams new or neglected perspectives in expert decision making and the importance of modeling expert performance through techniques and frameworks such as Cognitive Task Analysis computational architectures based on the notion of causal belief mapping such as Convince Me or the data frame model of sensemaking The volume provides essential reading for researchers and practitioners of Naturalistic Decision Making and those who study Expertise Organizational and Cognitive Psychologists and researchers and students in Business and Engineering

Incident Command: Tales from the Hot Seat Rhona Flin,Kevin Arbuthnot,2017-07-12 Incident Command Tales From the Hot Seat presents a unique examination of the skills of the on scene or incident commander who is in charge of an emergency or major incident Experienced commanders from the police and fire services

the armed forces civil aviation and the prison service give personal accounts of their command experiences discuss their dilemmas and the pressures they faced and reveal the demands of leading under extreme conditions They share intimate details of cases where their command skills were tested ranging from industrial fires riots hostage taking warfare peacekeeping to in flight emergencies Each case ends with lessons learnt and tips for the developing commander Additional chapters present expert accounts of the art of incident command incident command systems competencies for command as well as reviews of the latest psychological research into decision making and team work under pressure The book is an essential compelling text that captures the essence of incident command by analyzing command experiences across a range of professions

The Oxford Handbook of Expertise Paul Ward, Jan Maarten Schraagen, Julie Gore, Emilie M. Roth, 2020 The Oxford Handbook of Expertise provides a comprehensive picture of the field of Expertise Studies It offers both traditional and contemporary perspectives and importantly a multidiscipline multimethod view of the science and engineering research on expertise

In Pursuit of the Good Life Dustin Brisson, 2025-04-01 An invaluable resource for students to improve their personal well being and thrive in college The college experience offers educational and social opportunities that can be incredibly rewarding for students For many however college is a time of extreme anxiety and stress but it doesn't have to be In Pursuit of the Good Life Strategies for Well Being and Success in College digs into the challenges that most frequently plague students and provides practical guidance to overcome these difficulties and thrive Turning on its head the idea that academic success leads to improved well being this book instead rests on the foundation that personal well being is the pillar that supports all other success in college Organized by key challenges facing students each chapter explores the research and reasoning surrounding the issue being discussed and offers guidance and exercises to assist the student in navigating and even gaining from the challenge Covering such topics as anxiety lack of motivation group dynamics and busyness vs productiveness In Pursuit of the Good Life not only provides students with the skills to maximize the benefits of higher education but to be happy as well

Perspectives on Cognitive Task Analysis Robert R. Hoffman, Laura G. Militello, 2008-09-09 This volume is the first comprehensive history of task analysis charting its origins from the earliest applied psychology through to modern forms of task analysis that focus on the study of cognitive work Through this detailed historical analysis it is made apparent how task analysis has always been cognitive Chapters cover the history

Computing with Instinct Yang Cai, 2011-03-03 Simplicity in nature is the ultimate sophistication The world's magnificence has been enriched by the inner drive of instincts the profound drive of our everyday life Instinct is an inherited behavior that responds to environmental stimuli Instinctive computing is a computational simulation of biological and cognitive instincts which influence how we see feel appear think and act If we want a computer to be genuinely secure intelligent and to interact naturally with us we must give computers the ability to recognize understand and even to have primitive instincts This book Computing with Instincts comprises the proceedings of the Instinctive Computing Workshop

held at Carnegie Mellon University in the summer of 2009 It is the first state of the art survey on this subject The book consists of three parts Instinctive Sensing Communication and Environments including new experiments with in vitro biological neurons for the control of mobile robots instinctive sound recognition texture vision visual abstraction genre in cultures human interaction with virtual world intuitive interfaces exploitive interaction and agents for smart environments

Working Minds Beth Crandall, Gary A. Klein, Robert R. Hoffman, 2006-07-07 How to collect data about cognitive processes and events how to analyze CTA findings and how to communicate them effectively a handbook for managers trainers systems analysts market researchers health professionals and others Cognitive Task Analysis CTA helps researchers understand how cognitive skills and strategies make it possible for people to act effectively and get things done CTA can yield information people need employers faced with personnel issues market researchers who want to understand the thought processes of consumers trainers and others who design instructional systems health care professionals who want to apply lessons learned from errors and accidents systems analysts developing user specifications and many other professionals CTA can show what makes the workplace work and what keeps it from working as well as it might Working Minds is a true handbook offering a set of tools for doing CTA methods for collecting data about cognitive processes and events analyzing them and communicating them effectively It covers both the why and the how of CTA methods providing examples guidance and stories from the authors own experiences as CTA practitioners Because effective use of CTA depends on some conceptual grounding in cognitive theory and research on knowing what a cognitive perspective can offer the book also offers an overview of current research on cognition The book provides detailed guidance for planning and carrying out CTA with chapters on capturing knowledge and capturing the way people reason It discusses studying cognition in real world settings and the challenges of rapidly changing technology And it describes key issues in applying CTA findings in a variety of fields Working Minds makes the methodology of CTA accessible and the skills involved attainable **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

WORKING IN HIGH RISK ENVIRONMENTS Douglas Paton, John M. Violanti, 2012-01-01 The impact of events such as the 9 11 terrorist attacks and Hurricane Katrina were felt across the spectrum of organizations Such events provide vivid illustrations of the exceptional circumstances that emergency and protective service agencies and businesses alike can encounter The goal of this book is to broaden the perspectives on the populations that need to be included when thinking

about high risk groups and from whom insights into resilience and how it is enacted can be sought The first chapter discusses high risk environments sustained resilience and stress risk management Chapter 2 explores family first responders and resilient mothers of special needs children including case examples Chapter 3 examines the resilience of Antarctic expeditioners relationship dynamics social support and organizational climate Information sharing trust empowerment and staying cool under pressure is also discussed Chapter 4 covers business resilience preventing loss versus facilitating survival and the role of continuity planning In Chapter 5 scientific advice for critical decision making natural hazards and emergency management uncertainty team decision making advice taking and shared mental models is presented Chapter 6 covers COP Shot and the seeds of resiliency Chapter 7 defines resiliency in high risk groups and provides a qualitative analysis of law enforcement and elite military personnel The Johns Hopkins Perspective is explored focusing on the results and methods of structural modeling Chapter 8 describes the psychological stress factors in modern military operations mental hardiness and leader influence Chapter 9 pursues the ecological theory of resilience and adaptive capacity in emergency services Ultimately the book meets a need on how to respond effectively in a high risk environment and the information contained will assist agencies and businesses to develop their capacity to adapt to unpredictable and challenging circumstances

Technical Report ,2001 *Using Knowledge and Evidence in Health Care* François Champagne,Louise

Lemieux-Charles,2008-05-24 At the clinical management and policy levels the use of knowledge and evidence in health care has become a worldwide priority The contributors to *Using Knowledge and Evidence in Health Care* seek to broaden our understanding of the complexity involved in health care decision making by integrating social science knowledge and exploring some of the challenges and limits of evidence in different health care contexts Louise Lemieux Charles and François Champagne have brought together an esteemed group of scholars to provide a conceptual framework that illustrates the factors critical to analysing and optimizing the use of knowledge and evidence Previous studies have focused primarily on the medical literature without acknowledging the social sciences tradition With its integration of works from political science public policy informatics and other disciplines *Using Knowledge and Evidence in Health Care* provides a bridge between both worlds By bringing together different views on the topic the volume goes beyond strict disciplinary boundaries to provide the fullest exploration of knowledge and evidence in health care **Practicing Perfection** Roger Chaffin,Gabriela Imreh,Mary

Crawford,2005-04-11 The memory feats of famous musicians seem almost superhuman Can such extraordinary accomplishments be explained by the same principles that account for more ordinary everyday memory abilities To find out a concert pianist videotaped her practice as she learned a new piece for performance the third movement Presto of the Italian Concerto by J S Bach The story of how the pianist went about learning memorizing and polishing the piece is told from the viewpoints of the pianist the second author and of a cognitive psychologist the first author observing the practice The counterpoint between these insider and outsider perspectives is framed by the observations of a social psychologist the third

author about how the two viewpoints were reconciled The CD that accompanies the book provides for yet another perspective allowing the reader to hear the polished performance Written for both psychologists and musicians the book provides the first detailed description of how an experienced pianist organizes her practice identifying stages of the learning process characteristics of expert practice and practice strategies The main focus however is on memorization An analysis of what prominent pianists of the past century have said about memorization reveals considerable disagreement and confusion Using previous work on expert memory as a starting point the authors show how principles of memory developed by cognitive psychologists apply to musical performance and uncover the intimate connection between memorization and interpretation

Linking Expertise And Naturalistic Decision Making Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Linking Expertise And Naturalistic Decision Making**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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