JOINT COGNITIVE SYSTEMS

Foundations of Cognitive Systems Engineering

Erik Hollnagel
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Joint Cognitive Systems Foundations Of Cognitive Systems Engineering

Ezio Di Nucci,Filippo Santoni de Sio

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Joint Cognitive Systems Erik Hollnagel,David D. Woods,2005-02-28 Nothing has been more prolific over the past century than human machine interaction Automobiles telephones computers manufacturing machines robots office equipment machines large and small all affect the very essence of our daily lives However this interaction has not always been efficient or easy and has at times turned fairly hazardous   Joint Cognitive Systems David D. Woods,Erik Hollnagel,2006-03-27 Our fascination with new technologies is based on the assumption that more powerful automation will overcome human limitations and make our systems faster better cheaper resulting in simple easy tasks for people But how does new technology and more powerful automation change our work Research in Cognitive Systems Engineering CSE l   **Cognitive Systems Engineering** Philip J. Smith,Robert R. Hoffman,2017-10-25 This volume provides an exceptional perspective on the nature evolution contributions and future of the field of Cognitive Systems Engineering CSE It is a resource to support both the teaching and practice of CSE It accomplishes this through its organization into two complementary approaches to the topic The first is an historical perspective In the retrospections of leaders of the field what have been the seminal achievements of cognitive human factors What are the lessons learned that became foundational to CSE and how did that foundation evolve into a broader systems view of cognitive work The second perspective is both pedagogical and future looking What are the major conceptual issues that have to be addressed by CSE and how can a new generation of researchers be prepared to further advance CSE Topics include studies of expertise cognitive work analysis cognitive task analysis human performance system design cognitive modeling decision making human computer interaction trust in automation teamwork and ecological interface design A thematic focus will be on systems level analysis and such notions as resilience engineering and systems level measurement The book features broad coverage of many of the domains to which CSE is being applied among them industrial process control health care decision aiding and aviation human factors The book s contributions are provided by an extraordinary group of leaders and pathfinders in applied psychology cognitive science systems analysis and system design In combination these chapters present invaluable insights experiences and continuing uncertainties on the subject of the field of CSE and in doing so honor the career and achievements of Professor David D Woods of Ohio State University   *Collaboration and Technology* Gwendolyn Kolfschoten,Thomas Herrmann,Stephan Lukosch,2010-09-13 This book constitutes the proceedings of the 16th Collaboration Researchers International Working Group Conference on Collaboration and Technology held in Maastricht The Netherlands in September 2010 The 27 revised papers presented were carefully reviewed and selected from numerous submissions They are grouped into seven themes that represent current areas of interest in groupware research knowledge elicitation construction and structuring collaboration and decision making collaborative development awareness support for groupware design social networking and mobile collaboration   Orchestrating Human-Centered Design Guy Boy,2012-10-05 The time has come to move into a more

humanistic approach of technology and to understand where our world is moving to in the early twenty first century The design and development of our future products needs to be orchestrated whether they be conceptual technical or organizational Orchestrating Human Centered Design presents an Orchestra model that attempts to articulate technology organizations and people Human centered design HCD should not be limited to local short term linear engineering but actively focus on global long term non linear design and constantly identify emergent properties from the use of artifacts Orchestrating Human Centered Design results from incremental syntheses of courses the author has given at the Florida Institute of Technology in the HCD PhD program It is focused on technological and philosophical concepts that high level managers technicians and all those interested in the design of artifacts should consider Our growing software intensive world imposes better knowledge on cognitive engineering life critical systems complexity analysis organizational design and management modeling and simulation and advanced interaction media and this well constructed and informative book provides a road map for this **Advances in Human Factors in Simulation and Modeling** Daniel N. Cassenti,2017-06-13 This book focuses on computational modeling and simulation research that advances the current state of the art regarding human factors in simulation and applied digital human modeling It reports on cutting edge simulators such as virtual and augmented reality on multisensory environments and on modeling and simulation methods used in various applications such as surgery military operations occupational safety sports training education transportation and robotics Based on the AHFE 2017 International Conference on Human Factors in Simulation and Modeling held on July 17 21 2017 in Los Angeles California USA the book is intended as a timely reference guide for researchers and practitioners developing new modeling and simulation tools for analyzing or improving human performance It also offers a unique resource for modelers seeking insights into human factors research and more feasible and reliable computational tools to foster advances in this exciting research field   Information Modelling and Knowledge Bases XXXIII Marina Tropmann-Frick,Hannu Jaakkola,Bernhard Thalheim,Yasushi Kiyoki,Naofumi Yoshida,2022-02-15 The technology of information modelling and knowledge bases addresses the complexities of modelling in digital transformation and digital innovation reaching beyond the traditional borders of information systems and academic research in computer science This book presents 21 papers from the 31st International conference on Information Modeling and Knowledge Bases EJC 2021 hosted by the Department Informatik of the University of Applied Sciences in Hamburg Germany and held as a virtual event from 7 to 9 September 2021 due to restrictions caused by the Corona virus The conference provides a research forum for academics and practitioners dealing with information and knowledge to exchange scientific results and experiences and EJC 2021 covered a wide range of themes extending knowledge discovery through conceptual modeling knowledge and information modeling and discovery linguistic modeling cross cultural communication and social computing environmental modeling and engineering and multimedia data modeling and systems As always the conference was open to new topics related to its main themes

meaning the content emphasis of the EJC conferences is always able to adapt to the changes taking place in the research field and the 21 papers included here after rigorous review selection and upgrading are the result of presentations comments and discussions during the conference Providing an up to the minute overview of the technology of information modeling and knowledge bases the book will be of interest to all those working in the field **From Safety to Safely** Erik Hollnagel,2025-06-30 The conventional interpretation of safety known as Safety I denotes a condition where as little as possible goes wrong and the focus of practical efforts in management or analysis is on the occurrence of unacceptable outcomes and on how to reduce their number to an acceptable level ideally zero The emphasis is therefore on how to manage safety as such as seen in the ubiquitous safety management systems SMS As Professor James Reason astutely points out this raises the interesting question of how it is possible to learn about something let alone manage it if it is studied only in situations in which it is absent The solution proposed by and described in this book is to stop using safety as a noun and instead use it as an adverb safely Now often referred to as Safety II this solution is the logical consequence of resilience engineering and will require new methods several of which already exist and have proved their worth in practice for years The question ceases being what to manage and becomes how to manage Managing safety is protective hence a non productive cost which at best avoids a loss Conversely managing safely is productive and can generate revenue in addition to preventing or avoiding losses aviation and mining are prime examples From Safety to Safely provides a practical perspective on managing safely illustrating a practical form of synesis It offers a new understanding of safety combining concerns for productivity and safety rather than juxtaposing them and it shows how to manage complex industrial and social systems in the spirit of resilience engineering and synesis It is the first book to completely dispense with the loaded term safety while offering a practical and viable alternative Spoiler alert this book does not mention or analyse any celebrated accidents This book is for all middle and senior managers board members and independent consultants seeking to ensure safe revenue generating operations Encyclopedia of Information Science and Technology Mehdi Khosrow-Pour,Mehdi Khosrowpour,2009 This set of books represents a detailed compendium of authoritative research based entries that define the contemporary state of knowledge on technology Provided by publisher *IAAP Handbook of Applied Psychology* Paul R. Martin,Fanny Cheung,Michael C. Knowles,Michael Kyrios,Lyn Littlefield,J. Bruce Overmier,José M. Prieto,2011-03-01 The IAAP Handbook of Applied Psychology an up to date and authoritative reference provides a critical overview of applied psychology from an international perspective Brings together articles by leading authorities from around the world Provides the reader with a complete overview of the field and highlights key research findings Divided into three parts professional psychology substantive areas of applied psychology and special topics in applied psychology Explores the challenges opportunities and potential future developments in applied psychology Features comprehensive coverage of the field including topics as diverse as clinical health psychology environmental psychology and consumer psychology

Identification of Change Patterns for the Generation of Models of Work-as-Done using Eye-tracking Arenius, Marcus,2017-01-01 In this PhD a method was developed to identify systematic patterns of change in visual attention allocation change patterns The change patterns were then integrated into the Functional Resonance Analysis Method FRAM for the generation of models of work as done The change patterns were validated against known changes in visual attention allocation due to shifts in functions of work as done in several eye tracking studies three simulator studies one field study and one experimental study In total approx 50 hours of eye tracking data was analyzed The results of the method were validated quantitatively and qualitatively In the quantitative validation the changes in visual attention allocation due to changes in functions were covered with a mean deviation of approx 13 seconds averaged over all datasets 2% deviation relative to the recording lengths In the qualitative validation the change patterns produced were found to be plausible for the evaluated studies Finally it was demonstrated how the change patterns can be integrated into FRAM and potentially contribute to the understanding of emergent effects in industries with high levels of automation   Decision Making in Complex Environments Jan Noyes,2017-09-18 Many complex systems in civil and military operations are highly automated with the intention of supporting human performance in difficult cognitive tasks The complex systems can involve teams or individuals working on real time supervisory control command or information management tasks where a number of constraints must be satisfied Decision Making in Complex Environments addresses the role of the human the technology and the processes in complex socio technical and technological systems The aim of the book is to apply a multi disciplinary perspective to the examination of the human factors in complex decision making It contains more than 30 contributions on key subjects such as military human factors team decision making issues situation awareness and technology support In addition to the major application area of military human factors there are chapters on business medical governmental and aeronautical decision making The book provides a unique blend of expertise from psychology human factors industry commercial environments the military computer science organizational psychology and training that should be valuable to academics and practitioners alike   *Naturalistic Decision Making and Macrocognition* Laura Militello,Raanan Lipshitz,Jan Maarten Schraagen,2017-09-18 This book presents the latest work in the area of naturalistic decision making NDM and its extension into the area of macrocognition It contains 18 chapters relating research centered on the study of expertise in naturalistic settings written by international experts in NDM and cognitive systems engineering The objective of the book is to present the reader with exciting new developments in this field of research which is characterized by its application oriented focus The work addresses only real world problems and issues For instance how do multi national teams collaborate effectively How can surgeons best be supported by technology How do detectives make sense of complex criminal cases In all instances the studies have been carried out on experts within their respective domains The traditional field of NDM is extended in this work by focusing on macrocognitive functions other than decision making namely sense making coordination and planning

This has broadened the scope of the field The book also contains a theoretical discussion of the macro micro distinction Naturalistic Decision Making and Macrocognition will be relevant to graduate students researchers and professionals including professionals and researchers in business industry and government who are interested in decision making expertise training methods and system design The material may be used in two ways theoretically to advance understanding of the field of naturalistic decision making and practically to gain insight into how experts in various domains solve particular problems understand and deal with issues and collaborate with others **Analysis of Resource Management in Complex Work Systems** Qinglian Lin,2016-08-19 This book develops and assesses a decision making model for resource management in complex work systems in line with the Systems Engineering method It applies the Balanced Scorecard to the development of the criteria system for decision making and employs fuzzy linguistics theory to evaluate the alternatives Further the book assesses the application of this model in a hospital that has to decide whether or not to outsource its sterile goods The use of the model opens up a diverse range of fields for decision making in the area of complex work systems Human Interface and the Management of Information. Methods, Techniques and Tools in Information Design Michael J. Smith,Gavriel Salvendy,2007-08-24 This is the first of a two volume set that constitutes the refereed proceedings of the Symposium on Human Interface 2007 held in Beijing China in July 2007 It covers design and evaluation methods and techniques visualizing information retrieval searching browsing and navigation development methods and techniques as well as advanced interaction technologies and techniques The Handbook of Human-Machine Interaction Guy A. Boy,2017-11-01 The Handbook of Human Machine Interaction features 20 original chapters and a conclusion focusing on human machine interaction HMI from analysis design and evaluation perspectives It offers a comprehensive range of principles methods techniques and tools to provide the reader with a clear knowledge of the current academic and industry practice and debate that define the field The text considers physical cognitive social and emotional aspects and is illustrated by key application domains such as aerospace automotive medicine and defence Above all this volume is designed as a research guide that will both inform readers on the basics of human machine interaction from academic and industrial perspectives and also provide a view ahead at the means through which human centered designers including engineers and human factors specialists will attempt to design and develop human machine systems **Human-Computer Interactions in Transport** Christophe Kolski,2013-01-24 The human computer interactions are more and more present in our everyday life and lead to many conceptual and methodological problems for the designers and evaluators of interactive systems This book is about Human Computer Interaction in Transport domain in which the traveler becomes a user of information systems particularly before and during the travel s This book will focus on traveler information and personalized systems using a human centered design approach **HCI International 2015 - Posters' Extended Abstracts** Constantine Stephanidis,2015-07-20 This is the second volume of the two volume set CCIS 528 and CCIS 529 that contains extended abstracts of the posters presented

during the 17th International Conference on Human Computer Interaction HCII 2015 held in Heraklion Crete Greece in August 2015 The total of 1462 papers and 246 posters 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 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 papers included in this volume are organized in the following topical sections mobile interaction and smart devices social media HCI in business and innovation learning technologies HCI in health assistive technologies and environments fitness and well being applications location and context awareness urban interaction automotive and aviation design and user studies **Drones and Responsibility** Ezio Di Nucci,Filippo Santoni de Sio,2016-07-01 How does the use of military drones affect the legal political and moral responsibility of different actors involved in their deployment and design This volume offers a fresh contribution to the ethics of drone warfare by providing for the first time a systematic interdisciplinary discussion of different responsibility issues raised by military drones The book discusses four main sets of questions First from a legal point of view we analyse the ways in which the use of drones makes the attribution of criminal responsibility to individuals for war crimes more complicated and what adjustments may be required in international criminal law and in military practices to avoid responsibility gaps in warfare From a moral and political perspective the volume looks at the conditions under which the use of military drones by states is impermissible permissible or even obligatory and what the responsibilities of a state in the use of drones towards both its citizens and potential targets are From a socio technical perspective what kind of new human machine interaction might and should drones bring and which new kinds of shared agency and responsibility Finally we ask how the use of drones changes our conception of agency and responsibility The book will be of interest to scholars and students in military ethics and to those in law politics and the military involved in the design deployment and evaluation of military drones **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

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