

Cognitive Systems Engineering in Health Care



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Cognitive Systems Engineering In Health Care

**Institute of Medicine, National
Academy of Engineering**



Cognitive Systems Engineering In Health Care:

Cognitive Systems Engineering in Health Care Ann M. Bisantz, Catherine M. Burns, Rollin J. Fairbanks, 2014-12-02
Cognitive systems engineering has been widely and successfully applied in the design of safety critical systems such as nuclear power aviation and military command and control More recently these methods are being applied to the design of health and medical systems in order to improve health care quality reduce errors and adverse events and improve efficiencies Cognitive Systems Engineering in Health Care provides an overview of cognitive systems engineering principles in the context of health care It contains state of the art examples of cognitive systems applications that can be adapted by health care practitioners interested in systematic engineering approaches to systems improvement The book highlights current cognitive engineering oriented research analyses and applications in settings such as cardiac surgery obstetrics and emergency medicine It focuses on the impact cognitive engineering analyses can have in supporting communication and coordination with health care teams The text then demonstrates the use of cognitive engineering methods to inform the design of information technology It then details the systematic adaptation and application of specific cognitive engineering methods in the medical domain The book concludes with examples of how in depth cognitive engineering analyses can lead to demonstrated improvements in health care environments Through a series of sample studies the book gives you a deeper understanding of how cognitive engineering approaches might be applied in the health care domain You ll see common themes that underline the complexity of the health care domain and this insight can build a deep respect for the expertise of the practitioners who work in it By identifying the abstractions that hold constant in this domain you can build solutions for that will evolve to handle new applications challenges and approaches

Comprehensive Healthcare Simulation: Improving Healthcare Systems Ellen S. Deutsch, Shawna J. Perry, Harshad G. Gurnaney, 2021-07-22 This book presents simulation as an essential powerful tool to develop the best possible healthcare system for patients It provides vital insights into the necessary steps for supporting and enhancing medical care through the simulation methodology Organized into four sections the book begins with a discussion on the overarching principles of simulation and systems Section two then delves into the practical applications of simulation including developing new workflows utilizing new technology building teamwork and promoting resilience Following this section three examines the transition of ideas and initiatives into everyday practices Chapters in this section analyze complex interpersonal topics such as how healthcare clinical stakeholders simulationists and experts who are non clinicians can collaborate The closing section explores the potential future directions of healthcare simulation as well as leadership engagement A new addition to the Comprehensive Healthcare Simulation Series Improving Healthcare Systems stimulates the critical discussion of new and innovative concepts and reinforces well established and germane principles

Cognitive Systems Engineering Jens Rasmussen, Annelise Mark Pejtersen, L. P. Goodstein, 1994-08-16 Powerful information technologies and the complex support systems they engender are evolving faster than people s ability to adjust to

them In the workplace this leads to troublesome task performance added stress on users increased organizational inefficiency and in some cases a heightened risk of wide scale disaster In the marketplace it makes for consumer dissatisfaction Clearly traditional human computer interaction HCI and system design SD solutions to this dilemma have proven woefully inadequate What is needed is a fresh multidisciplinary approach offering a broader more dynamic framework for assessing needs and designing usable efficient systems Taking modeling concepts from engineering psychology cognitive science information science and computer science cognitive systems engineering CSE provides such a framework This book is the first comprehensive guide to the emerging new field of CSE Providing equal parts theory and practice it is based on the authors many years of experience with work systems in a wide range of work domains including process control manufacturing hospitals and libraries Throughout the emphasis is on powerful analytical techniques that enhance the systems designer s ability to see the big picture and to design for all crucial aspects of human work interaction Applicable to highly structured technical systems such as process plants as well as less structured user driven systems like libraries these analytical techniques form the basis for the evaluation and design guidelines that make up the bulk of this book And since the proof is in the pudding the authors provide a chapter length case history in which they demonstrate the success of their approach when applied to a full scale software design project The project a retrieval system for public libraries is described in detail from field studies to concept validation experiments and of course the empirical evaluation of the system while in use by the library users and personnel Computer based information systems are rapidly becoming a fundamental part of the human landscape How that landscape evolves over the next decade or so whether it becomes a hostile one or one that generously supports the needs of future generations is in the hands of all those involved with the study and design of information systems

Advancing Diversity, Inclusion, and Social Justice Through Human Systems Engineering

Rod D. Roscoe, Erin K. Chiou, Abigail R. Wooldridge, 2019-10-16 Winner of the Outstanding Academic Title recognition by Choice for the 2020 OAT Awards The Choice OAT Award represents the highest caliber of scholarly titles that have been reviewed by Choice and conveys the extraordinary recognition of the academic community Advancing Diversity Inclusion and Social Justice through Human Systems Engineering highlights how scholars and practitioners of HSE inclusively defined to span many fields can apply their theories and methods to understand and support healthy communities include and empower diverse populations and inspire strategies for a more inclusive future This volume brings together experts from human factors ergonomics psychology human computer interaction and more to demonstrate how these fields can be applied to societal challenges and solutions Through a blend of research reports literature reviews and personal narratives this volume explores these issues from the individual to the global scale across diverse populations and across multiple continents Features Draws upon human factors and ergonomics theories and methods to evaluate understand and confront systemic threats to inclusion and social justice Offers actionable methodologies strategies and recommendations for conducting

human centered research design and training with marginalized or vulnerable populations Offers a venue for reporting and reconsidering the work of human factors and ergonomics from the perspectives of diversity inclusion and social justice

Healthcare and the Effect of Technology: Developments, Challenges and Advancements Kabene, Stéfane M.,2010-03-31 This book examines current developments and challenges in the incorporation of ICT in the health system from the vantage point of patients providers and researchers The authors take an objective realistic view of the shift that will result for patients providers and the healthcare industry in general from the increased use of eHealth services Provided by publisher

Handbook of Human Factors and Ergonomics in Health Care and Patient Safety Pascale Carayon,2006-09-08 A complete resource this handbook presents current knowledge on concepts and methods of human factors and ergonomics and their applications to help improve quality safety efficiency and effectiveness in patient care It provides specific information on how to analyze medical errors with the fundamental goal to reduce such errors and the harm t Resilient Health Care, Volume 2 Robert L. Wears,Erik Hollnagel,2017-03-02 Health systems everywhere are expected to meet increasing public and political demands for accessible high quality care Policy makers managers and clinicians use their best efforts to improve efficiency safety quality and economic viability One solution has been to mimic approaches that have been shown to work in other domains such as quality management lean production and high reliability In the enthusiasm for such solutions scant attention has been paid to the fact that health care as a multifaceted system differs significantly from most traditional industries Solutions based on linear thinking in engineered systems do not work well in complicated multi stakeholder non engineered systems of which health care is a leading example A prerequisite for improving health care and making it more resilient is that the nature of everyday clinical work be well understood Yet the focus of the majority of policy or management solutions as well as that of accreditation and regulation is work as it ought to be also known as work as imagined The aim of policy makers and managers whether the priority is safety quality or efficiency is therefore to make everyday clinical work or work as done comply with work as imagined This fails to recognise that this normative conception of work is often oversimplified incomplete and outdated There is therefore an urgent need to better understand everyday clinical work as it is done Despite the common focus on deviations and failures it is undeniable that clinical work goes right far more often than it goes wrong and that we only can make it better if we understand how this happens This second volume of Resilient Health Care continues the line of thinking of the first book but takes it further through a range of chapters from leading international thinkers on resilience and health care Where the first book provided the rationale and basic concepts of RHC the Resilience of Everyday Clinical Work b *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

Resilience Engineering in Practice, Volume 2 Christopher P. Nemeth, Erik Hollnagel, 2016-11-30 This is the fifth book published within the Ashgate Studies in Resilience Engineering series The first volume introduced resilience engineering broadly The second and third volumes established the research foundation for the real world applications that then were described in the fourth volume Resilience Engineering in Practice The current volume continues this development by focusing on the role of resilience in the development of solutions Since its inception the development of resilience engineering as a concept and a field of practice has insisted on expanding the scope from a preoccupation with failure to include also the acceptable everyday functioning of a system or an organisation The preoccupation with failures and adverse outcomes focuses on situations where something goes wrong and the tries to keep the number of such events and their adverse outcomes as low as possible The aim of resilience engineering and of this volume is to describe how safety can change from being protective to become productive and increase the number of things that go right by improving the resilience of the system

Building a Better Delivery System Institute of Medicine, National Academy of Engineering, 2005-10-20 In a joint effort between the National Academy of Engineering and the Institute of Medicine this books attempts to bridge the knowledge awareness divide separating health care professionals from their potential partners in systems engineering and related disciplines The goal of this partnership is to transform the U S health care sector from an underperforming conglomerate of independent entities individual practitioners small group practices clinics hospitals pharmacies community health centers et al into a high performance system in which every participating unit recognizes its dependence and influence on every other unit By providing both a framework and action plan for a systems approach to health care delivery based on a partnership between engineers and health care professionals Building a Better Delivery System describes opportunities and challenges to harness the power of

systems engineering tools information technologies and complementary knowledge in social sciences cognitive sciences and business management to advance the U S health care system

Resilience Engineering Perspectives, Volume 2 Erik Hollnagel, Christopher P. Nemeth, 2016-12-05 Preparation and Restoration is the second volume of Resilience Engineering Perspectives within the Ashgate Studies in Resilience Engineering series In four sections it broadens participation of the field to include policy and organization studies and articulates aspects of resilience beyond initial definitions Policy and Organization explores public policy and organizational aspects of resilience and how they aid or inhibit preparation and restoration Models and Measures addresses thoughts on ways to measure resilience and model systems to detect desirable and undesirable results Elements and Traits examines features of systems and how they affect the ability to prepare for and recover from significant challenges Applications and Implications examines how resilience plays out in the living laboratory of real world operations Preparation and Restoration addresses issues such as the nature of resilience the similarities and differences between resilience and traditional ideas of system performance how systems cope with varying demands and sometimes succeed and sometimes fail how an organization s ways of preparing before critical events can enable or impede restoration the trade offs that are needed for systems to operate and survive instances of brittle or resilient systems how work practices affect resilience the relationship between resilience and safety and what improves or erodes resilience This volume is valuable reading for those who create and operate systems that must not only survive but thrive in the face of challenge

A Paradigm Shift in Health Care Information Systems Christopher G. Chute, 1998 **Iowa Engineer**, 2014

Critical Issues in User Interface Systems Engineering David Benyon, 1996 It takes a thoroughly integrated approach to the topic based on the principle that systems development can not be divided into design and implementation Instead the topic is assessed from a number of different viewpoints each of which reflects a different perspective on the products processes behaviour and construction of user interface software

Software Systems Engineering Andrew P. Sage, James D. Palmer, 1990-03-29 This introduction to software systems engineering shows how to integrate efficient tools for software engineering into a complete systems design methodology The theme is improvement of software productivity via the methods design methodologies and management approaches of systems engineering Covered are rapid prototyping reusability constructs knowledge based systems for software development interactive support system environments and systems management

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influence on every other unit By providing both a framework and action plan for a systems approach to health care delivery based on a partnership between engineers and health care professionals Building a Better Delivery System describes opportunities and challenges to harness the power of systems engineering tools information technologies and complementary knowledge in social sciences cognitive sciences and business management to advance the U S health care system

Proceedings of the ACM Symposium on User Interface Software and Technology ,2007 **Ergonomics in Health Care and Rehabilitation** Valerie J. Berg Rice,1998 This unique book teaches therapists how to use ergonomics to optimize human performance and improve patient health It explains what recommendations should be made to industry to promote healthy work habits and decrease the incidence of musculoskeletal injuries and discusses proper body mechanics work simplification techniques and recommendations for ergonomic equipment *OECD Information Technology Outlook 2008*

OECD,2009-01-26 This 2008 edition of the OECD Information Technology Outlook analyses recent developments in the IT goods and services industries and suggests that the outlook is for constrained but continued long term growth

Proceedings of the XIVth Triennial Congress of the International Ergonomics Association and 44th Annual Meeting of the Human Factors and Ergonomics Society : Ergonomics for the New Millennium International Ergonomics Association. Congress,2000

Enjoying the Melody of Phrase: An Emotional Symphony within **Cognitive Systems Engineering In Health Care**

In a global used by screens and the ceaseless chatter of immediate interaction, the melodic elegance and psychological symphony developed by the published term frequently fade into the background, eclipsed by the persistent sound and distractions that permeate our lives. But, located within the pages of **Cognitive Systems Engineering In Health Care** an enchanting fictional value brimming with natural feelings, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, that interesting masterpiece conducts visitors on an emotional trip, well unraveling the hidden tunes and profound impact resonating within each cautiously constructed phrase. Within the depths of this touching evaluation, we can examine the book is central harmonies, analyze its enthralling writing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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