



Handbook of
**HUMAN FACTORS in
MEDICAL DEVICE
DESIGN**

Edited by
Matthew B. Weinger
Michael E. Wiklund
Daryle J. Gardner-Bonneau



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Handbook Of Human Factors In Medical Device Design

Pascale Carayon



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Humanizing Healthcare - Human Factors for Medical Device Design Russell J. Branaghan, Joseph S. O'Brian, Emily A. Hildebrand, L. Bryant Foster, 2021-02-21 This book introduces human factors engineering HFE principles guidelines and design methods for medical device design It starts with an overview of physical perceptual and cognitive abilities and limitations and their implications for design This analysis produces a set of human factors principles that can be applied across many design challenges which are then applied to guidelines for designing input controls visual displays auditory displays alerts alarms warnings and human computer interaction Specific challenges and solutions for various medical device domains such as robotic surgery laparoscopic surgery artificial organs wearables continuous glucose monitors and insulin pumps and reprocessing are discussed Human factors research and design methods are provided and integrated into a human factors design lifecycle and a discussion of regulatory requirements and procedures is provided including guidance on what human factors activities should be conducted when and how they should be documented This hands on professional reference is an essential introduction and resource for students and practitioners in HFE biomedical engineering industrial design graphic design user experience design quality engineering product management and regulatory affairs Teaches readers to design medical devices that are safer more effective and less error prone Explains the role and responsibilities of regulatory agencies in medical device design Introduces analysis and research methods such as UFMEA task analysis heuristic evaluation and usability testing

Applied Human Factors in Medical Device Design Mary Beth Privitera, 2019-06-15 Applied Human Factors in Medical Device Design describes the contents of a human factors toolbox with in depth descriptions of both empirical and analytical methodologies The book begins with an overview of the design control process integrating human factors as directed by AAMI TIR 59 and experienced practice It then explains each method describing why each method is important its potential impact when it's ideal to use and related challenges Also discussed are other barriers such as communication breakdowns between users and design teams This book is an excellent reference for professionals working in human factors design engineering marketing and regulation Focuses on

meeting agency requirements as it pertains to the application of human factors in the medical device development process in both the US and the European Union EU Explains technology development and the application of human factors throughout the development process Covers FDA and MHRA regulations Includes case examples with each method 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 *Handbook of Human Factors and Ergonomics in Health Care and Patient Safety, Second Edition* Pascale Carayon,2011-11-09 The first edition of Handbook of Human Factors and Ergonomics in Health Care and Patient Safety took the medical and ergonomics communities by storm with in depth coverage of human factors and ergonomics research concepts theories models methods and interventions and how they can be applied in health care Other books focus on particular human factors and ergonomics issues such as human error or design of medical devices or a specific application such as emergency medicine This book draws on both areas to provide a compendium of human factors and ergonomics issues relevant to health care and patient safety The second edition takes a more practical approach with coverage of methods interventions and applications and a greater range of domains such as medication safety surgery anesthesia and infection prevention New topics include work schedules error recovery telemedicine workflow analysis simulation health information technology development and design patient safety management Reflecting developments and advances in the five years since the first edition the book explores medical technology and telemedicine and puts a special emphasis on the contributions of human factors and ergonomics to the improvement of patient safety and quality of care In order to take patient safety to the next level collaboration between human factors professionals and health care providers must occur This book brings both groups closer to achieving that goal Advances in Human Factors and Ergonomics in Healthcare and Medical Devices Nancy J. Lightner,2018-06-22 This book shows how human factors and ergonomic principles have been transforming healthcare It reports on the design of systems and devices to improve quality safety efficiency and effectiveness in patient care and discusses findings related to improving organizational outcomes in a healthcare setting as well as approaches for analyzing and modeling those work aspects that are unique to healthcare Based on the AHFE 2018 International Conference on Human Factors and Ergonomics in Healthcare and Medical Devices held on July 21 25 2018 in Orlando Florida USA the book highlights the physical cognitive and organizational aspects of human factors and ergonomic applications presenting various perspectives including those of clinicians patients health organizations and insurance providers The book is intended as a timely reference guide for researchers involved in the design of medical systems healthcare professionals managing healthcare settings as well as healthcare counselors and international health organizations *Handbook of Medical Device Design* Richard C.

Fries,2019-08-15 First published in 2001 This handbook has been written to give those professionals working in the development and use of medical devices practical knowledge about biomedical technology regulations and their relationship to quality health care 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 E 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 **Medical Device Use Error** Michael Wiklund,Andrea Dwyer,Erin Davis,2016-01-06 Medical Device Use Error Root Cause Analysis offers practical guidance on how to methodically discover and explain the root cause of a use error a mistake that occurs when someone uses a medical device Covering medical devices used in the home and those used in clinical environments the book presents informative case studies about the use errors *Mechanical Ventilation Amid the COVID-19 Pandemic* Amir A. Hakimi,Thomas E. Milner,Govind R. Rajan,Brian J-F Wong,2022-02-11 The surge in COVID 19 cases leading to hospitalizations around the world quickly depleted hospital resources and reserves forcing physicians to make extremely difficult life or death decisions on ventilator allocation between patients Leaders in academia and industry have developed numerous ventilator support systems using both consumer and industry grade hardware to sustain life and to provide intermediate respiratory relief for hospitalized patients This book is the first of its kind to discuss the respiratory pathophysiology underlying COVID 19 explain ventilator mechanics provide and evaluate a repository of innovative ventilator support devices conceived amid the pandemic and explain both hardware and software components necessary to develop an inexpensive ventilator support device This book serves both as a historical record of the collaborative and innovative response to the anticipated ventilator shortage during the COVID 19 pandemic and as a guide for physicians engineers and DIY ers interested in developing inexpensive transitory ventilator support devices Advances in Human Factors and Ergonomics 2012- 14 Volume Set Gavriel Salvendy,Waldemar Karwowski,2012-08-06 With contributions from an international group of authors with diverse backgrounds this set comprises all fourteen volumes of the proceedings of the 4th AHFE Conference 21 25 July 2012 The set presents the latest research on current issues in Human Factors and Ergonomics It draws from an international panel that examines cross cultural differences design issues usability road and rail transportation aviation modeling and simulation and healthcare **Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018)**

Sebastiano Bagnara, Riccardo Tartaglia, Sara Albolino, Thomas Alexander, Yushi Fujita, 2018-08-10 This book presents the proceedings of the 20th Congress of the International Ergonomics Association IEA 2018 held on August 26 30 2018 in Florence Italy By highlighting the latest theories and models as well as cutting edge technologies and applications and by combining findings from a range of disciplines including engineering design robotics healthcare management computer science human biology and behavioral science it provides researchers and practitioners alike with a comprehensive timely guide on human factors and ergonomics It also offers an excellent source of innovative ideas to stimulate future discussions and developments aimed at applying knowledge and techniques to optimize system performance while at the same time promoting the health safety and wellbeing of individuals The proceedings include papers from researchers and practitioners scientists and physicians institutional leaders managers and policy makers that contribute to constructing the Human Factors and Ergonomics approach across a variety of methodologies domains and productive sectors This volume includes papers addressing the following topics Ergonomics in Design Activity Theories for Work Analysis and Design and Affective Design

Contemporary Ergonomics and Human Factors 2013 Martin Anderson, 2018-02-12 The broad and developing scope of ergonomics the application of scientific knowledge to improve people's interaction with products systems and environments has been illustrated for 27 years by the books which make up the Contemporary Ergonomics series This book presents the proceedings of the international conference on Contemporary Ergonomics Contemporary Research Methods in Pharmacy and Health Services Shane P. Desselle, Victoria Garcia Cardenas, Parisa Aslani, Aleda M. H. Chen, Timothy F. Chen, Fernanda Stumpf Tonin, 2022-05-10 Emerging methods as well as best practices in well used methods in pharmacy are of great benefit to researchers graduate students graduate programs residents and fellows also in other health science areas Researchers require a text to assist in the design of experiments to address seemingly age old problems New interventions are needed to improve medication adherence patients lived experiences in health care provider patient relationships and even various facets of pharmacogenomics Advances in systems re engineering can optimize health care practitioners roles Contemporary Research Methods in Pharmacy and Health Services includes multi authored chapters by renowned experts in their field Chapters cover examples in pharmacy health services and others transcendent of medical care following a standardized format including key research points valid and invalid assumptions pitfalls to avoid applications and further inquiry This is a valuable resource for researchers both in academia and corporate R D primarily in pharmacy but also in health services and other health disciplines Social science researchers and government scientists can also benefit from the reading Provides multi authored chapters by renowned experts in their field Includes examples for pharmacy and health services and others that are transcendent of medical care Covers key research points valid and invalid assumptions pitfalls to avoid applications and further inquiry **Human Factors in Paramedic Practice** Gary Rutherford, 2020-09-22 Human factors is a scientific discipline which examines the interactions between components of a system whilst aspiring to improve

system performance and human well being Paramedics are often the first on scene in emergency and urgent situations and the quality of care that patients receive is dependent on the performance of the paramedic often working alone or as part of a small team and frequently in challenging environments This book is an accessible and informative guide to the concepts of human factors and ergonomics in the field of paramedic practice It shows how an understanding and application of these principles can improve paramedic performance and well being and ultimately patient care The system components of paramedic practice consist of the patient the environment the equipment the paramedic and their team the organisation they work in and the wider culture This book brings together a range of specialist contributors to consider each of these components in detail through chapters which explore situational awareness human centred design the well being of the paramedic systems thinking and safety culture among other topics It aims to provide paramedics with practical advice and the knowledge of human factors that they need to make their first contact with a patient in need as safe and effective as possible for all involved

Human Computer Interaction in Healthcare Andre W. Kushniruk, David R. Kaufman, Thomas G. Kannampallil, Vimla L. Patel, 2024-11-13 This thoroughly updated edition reports on the current state of human computer interaction HCI in biomedicine and healthcare focusing on the cognitive underpinnings of human interactions with people and technology With health information technologies becoming increasingly vital tools for the practice of clinical medicine this book draws from key theories models and evaluation frameworks and their application in biomedical contexts to apply this to current research in HCI However numerous challenges remain in order to fully realize their potential as instruments for advancing clinical care and enhancing patient safety There is a general consensus that health IT has not realized its potential as a tool to facilitate clinical decision making the coordination of care and improvements in patient safety Embracing sound principles of iterative design can yield significant dividends It can also enhance practitioner s abilities to meet meaningful use requirements The purpose of the book is two fold to address key gaps on the applicability of theories models and evaluation frameworks of HCI and human factors for research in biomedical informatics It highlights the state of the art drawing from the current research in HCI It also serves as a graduate level textbook highlighting key topics in HCI relevant for biomedical informatics computer science and social science students working in the healthcare domain Cognitive Informatics for Biomedicine Human Computer Interaction in Healthcare is indispensable to those who want to ensure that the systems they build and the interactive environments that they promote will reflect the rigor and dedication to human computer interaction principles that will ultimately enhance both the user s experience and the quality and safety of the care that is offered to patients It is an essential reference to all who are interested in the application of these new techniques within healthcare from students of informatics through to clinicians informatics researchers and developers of health IT looking to incorporate them into their day to day workflow

Evidence-Based Health Informatics Elske Ammenwerth, 2016-05-15 Health IT is a major field of investment in support of healthcare delivery but patients and

professionals tend to have systems imposed upon them by organizational policy or as a result of even higher policy decision. And while many health IT systems are efficient and welcomed by their users and are essential to modern healthcare this is not the case for all. Unfortunately some systems cause user frustration and result in inefficiency in use and a few are known to have inconvenienced patients or even caused harm including the occasional death. This book seeks to answer the need for better understanding of the importance of robust evidence to support health IT and to optimize investment in it to give insight into health IT evidence and evaluation as its primary source and to promote health informatics as an underpinning science demonstrating the same ethical rigour and proof of net benefit as is expected of other applied health technologies. The book is divided into three parts: the context and importance of evidence based health informatics; methodological considerations of health IT evaluation as the source of evidence; and ensuring the relevance and application of evidence. A number of cross cutting themes emerge in each of these sections. This book seeks to inform the reader on the wide range of knowledge available and the appropriateness of its use according to the circumstances. It is aimed at a wide readership and will be of interest to health policymakers, clinicians, health informaticians, the academic health informatics community, members of patient and policy organisations and members of the vendor industry.

Ergonomics Katrin Kroemer
 Elbert, Henrike B. Kroemer, Anne D. Kroemer Hoffman, 2018-10-04 *Ergonomics* How to Design for Ease and Efficiency Third Edition updates and expands this classic guide including the latest essential themes and regulations. An introductory section provides all of the physical and mental ergonomics theory engineers, designers and managers need for a range of applications. The following section provides authoritative advice on how to design for the human in a range of real world situations now including new content on subjects including the individual within an organization, planning for space journeys, taking back control from autonomous systems and design for aging. Retaining its easy to use layout and jargon free style, this book remains an invaluable source of models, measures and advice for anyone who needs to understand ergonomics. Updated throughout to address new research on themes including haptics, autonomous vehicles and circadian rhythms. Includes discussions of the physical, anthropometric, biomechanical and mental capacities of the human along with tables of reference data. Provides both managerial and engineering recommendations covering aspects of ergonomics that are relevant across the project.

Handbook of Medical Device Design Richard C. Fries, 2000-09-14 *The Handbook of Medical Device Design* provides a review of regulatory and standards issues in medical device design including FDA regulations, types of 510 k, the ISO 9000 series and medical device directives. It identifies how to determine and document customer needs and device requirements. It also establishes reliability and qua

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