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THE ERGONOMICS OF COMPUTER POINTING DEVICES

Sarah A. Douglas

Anant Kartik Mithal



Ergonomics Of Computer Pointing Devices

Tareq Ahram, Renliu Jang



Ergonomics Of Computer Pointing Devices:

The Ergonomics of Computer Pointing Devices Sarah A. Douglas, Anant Kartik Mithal, 2012-12-06 We first began looking at pointing devices and human performance in 1990 when the senior author Sarah Douglas was asked to evaluate the human performance of a rather novel device a finger controlled isometric joystick placed under a key on the keyboard Since 1990 we have been involved in the development and evaluation of other isometric joysticks a foot controlled mouse a trackball and a wearable computer with head mounted display We unabashedly believe that design and evaluation of pointing devices should evolve from a broad spectrum of values which place the human being at the center These values include performance issues such as pointing time and errors physical issues such as comfort and health and contextual issues such as task usability and user acceptance This book chronicles this six year history of our relationship as teacher Douglas and student Mithal as we moved from more traditional evaluation using Fitts law as the paradigm to understanding the basic research literature on psychomotor behavior During that process we became profoundly aware that many designers of pointing devices fail to understand the constraints of human performance and often do not even consider experimental evaluation critical to usability decisions before marketing a device We also became aware of the fact that contrary to popular belief in the human computer interaction community the problem of predicting pointing device performance has not been solved by Fitts law Similarly our expectations were biased by the cognitive revolution of the past 15 years with the belief pointing device research was low level and uninteresting

Ergonomics and Health Aspects of Work with Computers Marvin J. Dainoff, 2007-08-24 This book constitutes the refereed proceedings of the International Conference on Ergonomics and Health Aspects of Work with Computers EHAWC 2007 held in Beijing China in July 2007 in the framework of the 12th International Conference on Human Computer Interaction HCII 2007 with 8 other thematically similar conferences It covers health and well being in the working environment as well as ergonomics and design

New Perspectives on Applied Industrial Ergonomics Arturo Realyvásquez Vargas, Jorge Luis García-Alcaraz, Emigdio Z-Flores, 2021-06-15 This book reports the most recent advanced successful and real applications of ergonomics in order to improve the human well being and performance in a short term as well as the organizational performance in a long term The book is organized as follows Physical Ergonomics This section reports case studies where physical risk factors are presented in the workplace such as physical risk factors including uncomfortable body postures repetitive movements force application manual material handling and physical environmental conditions In addition case studies must report applications from physical ergonomics methods for instance RULA REBA OWAS NIOSH JSI Suzane Rodgers ERIN among others Cognitive Ergonomics This section reports the implementation of ergonomic tools techniques and methods in real case studies These applications are aimed to know decrease and control cognitive and psychological risk factors such as mental workload information processing situation awareness human error identification and interface analysis These applications may include the following methods NASA TLX SWAT CWA SHERPA

HET TAFEI SAGAT SART SACRI QUIS SUMI to mention a few of them Macro ergonomics This section is focused on the analysis design and evaluation of work systems It reports case studies where risk factors are beyond a specific workstation These risk factors may include supervision styles teamwork management task variety social relationships organizational culture organizational communication technology work schedules and motivation among others In addition case studies report the application of macro ergonomic methods such as MOQS focus group participatory ergonomics HITOP MAS and MEAD among others

Handbook of Standards and Guidelines in Ergonomics and Human Factors Waldemar Karwowski, 2005-12-16 A comprehensive review of international and national standards and guidelines this handbook consists of 32 chapters divided into nine sections that cover standardization efforts anthropometry and working postures designing manual material human computer interaction occupational health and safety legal protection military human factor standar *Human Interface and the Management of Information. Information and Interaction* Gavriel Salvendy, Michael J. Smith, 2009-07-15 The 13th International Conference on Human Computer Interaction HCI International 2009 was held in San Diego California USA July 19 24 2009 jointly with the Symposium on Human Interface Japan 2009 the 8th International Conference on Engineering Psychology and Cognitive Ergonomics the 5th International Conference on Universal Access in Human Computer Interaction the Third International Conference on Virtual and Mixed Reality the Third International Conference on Internationalization Design and Global Development the Third International Conference on Online Communities and Social Computing the 5th International Conference on Augmented Cognition the Second International Conference on Digital Human Modeling and the First International Conference on Human Centered Design A total of 4 348 individuals from academia research institutes industry and governmental agencies from 73 countries submitted contributions and 1 425 papers that were judged to be of high scientific quality were included in the program These papers dress the latest research and development efforts and highlight the human aspects of the design and use of computing systems The papers accepted for presentation 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

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

Ergonomics for Design and Innovation Debkumar Chakrabarti, Sougata Karmakar, Urmi R. Salve, 2022-06-06 This book presents the proceedings of the 19th International Conference of the Indian Society of Ergonomics HWWE held in Guwahati India on December 1 3 2021 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 health care management

computer science and behavioral science it provides researchers and practitioners alike with a comprehensive timely guide on user centered design for quality life human factors and ergonomics design applications cognitive processing and response 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 well being of individuals The proceedings includes 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 International Encyclopedia of Ergonomics and Human Factors - 3 Volume Set Informa Healthcare,Waldemar Karwowski,2006-03-15 The previous edition of the International Encyclopedia of Ergonomics and Human Factors made history as the first unified source of reliable information drawn from many realms of science and technology and created specifically with ergonomics professionals in mind It was also a winner of the Best Reference Award 2002 from the Engineering Libraries *Advances in Ergonomics Modeling and Usability Evaluation* Halimahtun Khalid,Alan Hedge,Tareq Z. Ahram,2010-06-23 Taking the field of human factors and ergonomics beyond state of the art this volume focuses on advances in the use of ergonomics modeling and on the evaluation of usability a critical aspect of any human technology system The research described in the book s 70 chapters is an outcome of dedicated research by academics and practitioners from around the world and across disciplines It provides an invaluable resource for evaluating products and environments This volume is one of seven titles in the Advances in Human Factors and Ergonomics Series **Introduction to Human Factors and Ergonomics** Robert Bridger,2017-10-30 Building on the success of previous editions the 4th edition of Introduction to Human Factors and Ergonomics provides a comprehensive and up to date introduction to the field The new edition places the subject matter into a system context using a human machine model to structure the chapters and a knowledge application model to structure the organisation of material in each chapter Every chapter covers Core Concepts Basic Applications Tools and Processes and System Integration issues regardless of topic Includes over 200 exercises and essays at least ten per chapter An Instructor s Manual A Guide to Tutorials and Seminars and and over 500 powerpoint slides are available for academic users from the publisher All chapters contain HFE Workshop sections with practical guidance and worked examples Please see the TOC for more information International Encyclopedia of Ergonomics and Human Factors, Second Edition - 3 Volume Set Waldemar Karwowski,2006-03-15 The previous edition of the International Encyclopedia of Ergonomics and Human Factors made history as the first unified source of reliable information drawn from many realms of science and technology and created specifically with ergonomics professionals in mind It was also a winner of the Best Reference Award 2002 from the Engineering Libraries Division American Society of Engineering Education USA and the Outstanding Academic Title 2002 from Choice Magazine Not content to rest on his laurels human factors and ergonomics expert Professor Waldemar Karwowski has overhauled his

standard setting resource incorporating coverage of tried and true methods fundamental principles and major paradigm shifts in philosophy thought and design Demonstrating the truly interdisciplinary nature of this field these changes make the second edition even more comprehensive more informative more in a word encyclopedic Keeping the format popularized by the first edition the new edition has been completely revised and updated Divided into 13 sections and organized alphabetically within each section the entries provide a clear and simple outline of the topics as well as precise and practical information The book reviews applications tools and innovative concepts related to ergonomic research Technical terms are defined where possible within entries as well as in a glossary Students and professionals will find this format invaluable whether they have ergonomics engineering computing or psychology backgrounds Experts and researchers will also find it an excellent source of information on areas beyond the range of their direct interests

Advances in Physical Ergonomics and Human Factors: Part I Tareq Ahram, Renliu Jang, 2018-07-19 The discipline of human factors and ergonomics HF E is concerned with the design of products process services and work systems to assure their productive safe and satisfying use by people Physical ergonomics involves the design of working environments to fit human physical abilities By understanding the constraints and capabilities of the human body and mind we can design products services and environments that are effective reliable safe and comfortable for everyday use This book focuses on the advances in the physical HF E which are a critical aspect in the design of any human centered technological system The ideas and practical solutions described in the book are the outcome of dedicated research by academics and practitioners aiming to advance theory and practice in this dynamic and all encompassing discipline A thorough understanding of the physical characteristics of a wide range of people is essential in the development of consumer products and systems Human performance data serve as valuable information to designers and help ensure that the final products will fit the targeted population of end users Mastering physical ergonomics and safety engineering concepts is fundamental to the creation of products and systems that people are able to use avoidance of stresses and minimization of the risk for accidents

Ergonomic Workplace Design for Health, Wellness, and Productivity Alan Hedge, 2016-08-05 Even with today's mobile technology most work is still undertaken in a physical workplace Today's workplaces need to be healthy environments that minimize the risks of illnesses or injuries to occupants to compete in the marketplace This necessitates the application of good ergonomics design principles to the creation of effective workplaces and this is the focus of this book This book will Focus on ergonomic design for better health and ergonomic design for better productivity Presents environments that support new ways of working and alternative workplace strategies as well as the impacts of new technologies Covers the role of ergonomics design in creating sustainable workplaces Includes ergonomics design for a wide variety of workplaces from offices to hospitals to hotels to vehicles etc Shows the design principles on how to design and create a healthy and productive workplace The market lacks an ergonomics design book that covers the topics that this book will cover This book summarizes design principles for practitioners and applies them to the variety of

workplace settings described in the book No other book currently on the market does that **International Encyclopedia of Ergonomics and Human Factors** Waldemar Karwowski,2001 **Kodak's Ergonomic Design for People at Work** The Eastman Kodak Company,2003-10-10 Written for those who are on the job but not necessarily professionally trained ergonomists the principles and approaches detailed in this highly regarded guide have all been implemented in real world workplace environments and proven successful in reducing the potential for occupational injury increasing the number of people who can perform a job and improving employee performance on the job More than 150 clear and informative illustrations and tables help convey data and information in eight sections Ergonomics design philosophy Human reliability and information transfer Evaluation of job demands Work design Workplace design Manual handling in occupational tasks Equipment design Environment **Handbook of Standards and Guidelines in Human Factors and Ergonomics** Waldemar Karwowski,Anna Szopa,Marcelo M. Soares,2021-06-28 With an updated edition including new material in additional chapters this one of a kind handbook covers not only current standardization efforts but also anthropometry and optimal working postures ergonomic human computer interactions legal protection occupational health and safety and military human factor principles While delineating the crucial role that standards and guidelines play in facilitating the design of advantageous working conditions to enhance individual performance the handbook suggests ways to expand opportunities for global economic and ergonomic development This book features Guidance on the design of work systems including tasks equipment and workspaces as well as the work environment in relation to human capacities and limitations Emphasis on important human factors and ergonomic standards that can be utilized to improve product and process to ensure efficiency and safety A focus on quality control to ensure that standards are met throughout the worldwide market

Patent It Yourself David Pressman,David E. Blau,2022-11-29 Presents an introduction to the patenting process for inventors covering documentation searching commercial potential specifications drawings claims applications marketing patent infringement and licensing **Human-Centered Computing** Don Harris,Vincent Duffy,Michael Smith,Constantine Stephanidis,2019-11-11 The 10th International Conference on Human Computer Interaction HCI International 2003 is held in Crete Greece 22 27 June 2003 jointly with the Symposium on Human Interface Japan 2003 the 5th International Conference on Engineering Psychology and Cognitive Ergonomics and the 2nd International Conference on Universal Access in Human Computer Interaction A total of 2986 individuals from industry academia research institutes and governmental agencies from 59 countries submitted their work for presentation and only those submittals that were judged to be of high scientific quality were included in the program These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers accepted for presentation thoroughly cover the entire field of humancomputer interaction including the cognitive social ergonomic and health aspects of work with computers These papers also address major advances in knowledge and effective use of computers in a variety of diversified application areas

including offices financial institutions manufacturing electronic publishing construction health care disabled and elderly people etc **Internationalization, Design and Global Development** P.L.Patrick Rau,2011-06-27 This volume constitutes the refereed proceedings of the 4th International Conference on Internationalization Design and Global Development IDGD 2011 held in Orlando FL USA in July 2011 in the framework of the 14th International Conference on Human Computer Interaction HCII 2011 The 71 revised papers presented were carefully reviewed and selected from numerous submissions The papers accepted for presentation thoroughly cover the entire field of internationalization design and global development and address the following major topics Cultural and cross cultural design culture and usability design emotion trust and aesthetics cultural issues in business and industry culture communication and society

Meaningful Motion Sandi Jennifer Spaulding,2005-01-01 Meaningful Motion covers biomechanical and motor control principles and provides examples that address combining the principles of kinesiology with clinical occupational therapy practice The text also has case studies and laboratory exercises specifically designed for occupational therapy students The focus is on the concepts of kinesiology and excludes some of the mathematics that is used by biomechanists Written by a kinesiologist who is also an occupational therapist the text is tailored to the needs of the undergraduate and the practicing occupational therapist Principles of kinesiology are combined with clinical practice Includes case studies and laboratory exercises that have been specifically designed for occupational therapists Focuses on concepts used in day to day practice Discusses environments in which therapists work including balance training ergonomics and leisure

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