# Human error and accident theory

- Major systems accidents ("normal accidents") start with an accumulation of latent errors
  - most of those latent errors are human errors
    - » latent slips/lapses, particularly in maintenance
      - example: misconfigured valves in TMI
    - » latent mistakes in system design, organization, and planning, particularly of emergency procedures
      - example: flowcharts that omit unforeseen paths
  - invisible latent errors change system reality without altering operator's models
    - » seemingly-correct actions can then trigger accidents



# **Human Error In Computer Systems**

United States. Congress. House.
Committee on Small Business.
Subcommittee on General Oversight
and the Economy

#### **Human Error In Computer Systems:**

<u>Human Error in Computer Systems</u> Robert W. Bailey,1983 **Human Error, Reliability, Resilience, and Performance** Ronald L. Boring,2022-07-24 Human Error Reliability Resilience and Performance Proceedings of the 13th International Conference on Applied Human Factors and Ergonomics AHFE 2022 July 24 28 2022 New York USA

**Human-Computer Interaction** Constantine Stephanidis, Gavriel Salvendy, 2024-09-28 The pervasive influence of technology continuously shapes our daily lives From smartphones to smart homes technology is revolutionizing the way we live work and interact with each other Human computer interaction HCI is a multidisciplinary research field focusing on the study of people interacting with information technology and plays a critical role in the development of computing systems that work well for the people using them ensuring the seamless integration of interactive systems into our technologically driven lifestyles. The book series contains six volumes providing extensive coverage of the field wherein each one addresses different theoretical and practical aspects of the HCI discipline Readers will discover a wealth of information encompassing the foundational elements state of the art review in established and emerging domains analysis of contemporary advancements brought about by the evolution of interactive technologies and artificial intelligence as well as the emergence of diverse societal needs and application domains These books Showcase the pivotal role of HCI in designing interactive applications across a diverse array of domains Explore the dynamic relationship between humans and intelligent environments with a specific emphasis on the role of Artificial Intelligence AI and the Internet of Things IoT Provide an extensive exploration of interaction design by examining a wide range of technologies interaction techniques styles and devices Discuss user experience methods and tools for the design of user friendly products and services Bridge the gap between software engineering and human computer interaction practices for usability inclusion and sustainability These volumes are an essential read for individuals interested in human computer interaction research and applications Human Error Reduction in Manufacturing José Rodríguez-Pérez, 2018-08-27 For many years we considered human errors or mistakes as the cause of mishaps or problems In the manufacturing industries human error under whatever label procedures not followed lack of attention or simply error was the conclusion of any quality problem investigation. The way we look at the human side of problems has evolved during the past few decades Now we see human errors as the symptoms of deeper causes In other words human errors are consequences not causes The basic objective of this book is to provide readers with useful information on theories methods and specific techniques that can be applied to control human failure It is a book of ideas concepts and examples from the manufacturing sector It presents a comprehensive overview of the subject focusing on the practical application of the subject specifically on the human side of quality and manufacturing errors In other words the primary focus of this book is human failure including its identification its causes and how it can be reasonably controlled or prevented in the manufacturing industry setting In addition to including a detailed discussion of human error the inadvertent or involuntary component of human failure a chapter is devoted to analysis and discussion related to voluntary intentional noncompliance Written in a direct style using simple industry language with abundant applied examples and practical references this book s insights on human failure reduction will improve individual organizational and social well being

Foundations and Fundamentals in Human-Computer Interaction Constantine Stephanidis, Gavriel Salvendy, 2024-08-02 This book serves as a foundation to the field of HCI equipping readers with the necessary knowledge and skills to engage in this field This book Discusses human functionalities and characteristics relevant to interaction including sensory perception attention and memory language and communication emotions decision making as well as mental models human error and human actions Explores the evolution of HCI design approaches and the role of social and organizational psychology in HCI Discusses key concepts and societal aspects of interactive technologies such as user acceptance ethics privacy and trust Covers the historical background contributing disciplines essential concepts and theories within the domain This book will appeal to individuals interested in Human Computer Interaction research and applications Advances in Human Error. Reliability, Resilience, and Performance Ronald L. Boring, 2018-06-23 This book brings together studies broadly addressing human error from different disciplines and perspectives It discusses topics such as human performance human variability and reliability analysis medical driver and pilot error as well as automation error root cause analyses and the cognitive modeling of human error In addition it highlights cutting edge applications in safety management defense security transportation process controls and medicine as well as more traditional fields of application Based on the AHFE 2018 International Conference on Human Error Reliability Resilience and Performance held on July 21 25 2018 in Orlando Florida USA the book includes experimental papers original reviews and reports on case studies as well as meta analyses technical guidelines best practice and methodological papers It offers a timely reference guide for researchers and practitioners dealing with human error in a diverse range of fields **Human Error Reduction in Manufacturing** Jose (Pepe) Rodriguez-Perez, 2023-02-13 For many years we considered human errors or mistakes as the cause of mishaps or problems In the manufacturing industries human error under whatever label procedures not followed lack of attention or simply error was the conclusion of any quality problem investigation. The way we look at the human side of problems has evolved during the past few decades Now we see human errors as the symptoms of deeper causes In other words human errors are consequences not causes The basic objective of this book is to provide readers with useful information on theories methods and specific techniques that can be applied to control human failure It is a book of ideas concepts and examples from the manufacturing sector It presents a comprehensive overview of the subject focusing on the practical application of the subject specifically on the human side of quality and manufacturing errors In other words the primary focus of this book is human failure including its identification its causes and how it can be reasonably controlled or prevented in the manufacturing industry setting In addition to including a detailed discussion of human error the inadvertent or involuntary component of

human failure a chapter is devoted to analysis and discussion related to voluntary intentional noncompliance Written in a direct style using simple industry language with abundant applied examples and practical references this book s insights on human failure reduction will improve individual organizational and social well being **Advances in Cognitive Engineering and Neuroergonomics** Kay M. Stanney, Kelly S. Hale, 2012-07-11 This volume explores cognitive ergonomics which is concerned with mental processes otherwise known as brain work It discusses perception memory reasoning and motor response as they affect interactions among humans and other elements of a system Topics will include mental workload decision making skilled performance human computer interaction human reliability work stress and training as Computer System Reliability B.S. Dhillon, 2016-04-19 Computer systems have these relate to human system design become an important element of the world economy with billions of dollars spent each year on development manufacture operation and maintenance Combining coverage of computer system reliability safety usability and other related topics into a single volume Computer System Reliability Safety and Usability eliminates th Z User Workshop, York 1991 J. E. Nicholls, 2012-12-06 In ordinary mathematics an equation can be written down which is syntactically correct but for which no solution exists For example consider the equation x x 1 defined over the real numbers there is no value of x which satisfies it Similarly it is possible to specify objects using the formal specification language Z 3 4 which can not possibly exist Such specifications are called inconsistent and can arise in a number of ways Example 1 The following Z specification of a function from integers to integers f x 1 x O fx x 1 i f x 1 x O fx x 2 ii is inconsistent because axiom i gives f 0 1 while axiom ii gives f 0 2 This contradicts the fact that f was declared as a function that is f must have a unique result when applied to an argument Hence no suchfexists Furthermore iff 0 1 andfO 2 then 1 2 can be deduced From 1 2 anything can be deduced thus showing the danger of an inconsistent specification Note that all examples and proofs start with the word Example or Proof and end with the symbol 1 Handbook of Network and System Administration Jan Bergstra, Mark Burgess, 2011-08-11 System administration is about the design running and maintenance of human computer systems Examples of human computer systems include business enterprises service institutions and any extensive machinery that is operated by or interacts with human beings System administration is often thought of as the technological side of a system the architecture construction and optimization of the collaborating parts but it also occasionally touches on softer factors such as user assistance help desks ethical considerations in deploying a system and the larger implications of its design for others who come into contact with it This book summarizes the state of research and practice in this emerging field of network and system administration in an anthology of chapters written by the top academics in the field The authors include members of the IST EMANICS Network of Excellence in Network Management This book will be a valuable reference work for researchers and senior system managers wanting to understand the essentials of system administration whether in practical application of a data center or in the design of new systems and data centers Covers data center planning and design

Discusses configuration management Illustrates business modeling and system administration Provides the latest theoretical Safety of Computer Control Systems 1983 (Safecomp '83) J. A. Baylis, 2014-05-17 Safety of Computer developments Control Systems 1983 Achieving Safe Real Time Computer Systems contains the proceedings of the Third IFAC IFIP Workshop held at Cambridge UK on September 20 22 1983 Composed of 36 chapters separated into the eight sessions of the workshop this book begins with a discussion of the safety and reliability of computer control systems Subsequent chapters explore the systems design for safety and reliability fault tolerance recovery and use of redundancy and aspects of fault tolerance for system reliability Other chapters detail specification techniques system development and quality assurance verifications and validations case studies as well as scheduling networks and communications 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

Cognition and Interaction: From Computers to Smart Objects and Autonomous Agents Amon Rapp, Maurizio Tirassa, Tom Ziemke, 2019-10-10 Cognitive sciences have been involved under numerous accounts to explain how humans interact with technology as well as to design technological instruments tailored to human needs As technological advancements in fields like wearable and ubiquitous computing virtual reality robotics and artificial intelligence are presenting novel modalities for interacting with technology there are opportunities for deepening exploring and even rethinking the theoretical foundations of human technology use This volume entitled Cognition and Interaction From Computers to Smart Objects and Autonomous Agents is a collection of articles on the impacts that novel 3 September Frontiers in Psychology 2019 Cognition and Interaction interactive technologies are producing on individuals It puts together 17 works spanning from research on social cognition in human robot interaction to studies on neural changes triggered by Internet use that tackle relevant

technological and theoretical issues in human computer interaction encouraging us to rethink how we conceptualize technology its use and development The volume addresses fundamental issues at different levels The first part revolves around the biological impacts that technologies are producing on our bodies and brains The second part focuses on the psychological level exploring how our psychological characteristics may affect the way we use understand and perceive technology as well as how technology is changing our cognition The third part addresses relevant theoretical problems presenting reflections that aim to reframe how we conceptualize ourselves technology and interaction itself Finally the last part of the volume pays attention to the factors involved in the design of technological artifacts providing suggestions on how we can develop novel technologies closer to human needs Overall it appears that human computer interaction will have to face a variety of challenges to account for the rapid changes we are witnessing in the current technology landscape International 2011 Posters' Extended Abstracts Constantine Stephanidis, 2011-06-27 This two volume set CCIS 173 and CCIS 174 constitutes the extended abstracts of the posters presented during the 14th International Conference on Human Computer Interaction HCII 2011 held in Orlando FL USA in July 2011 jointly with 12 other thematically similar conferences A total of 4039 contributions was submitted to HCII 2011 of which 232 poster papers were carefully reviewed and selected for presentation as extended abstracts in the two volumes Springer Handbook of Automation Shimon Y. Nof, 2009-07-16 Automation is undergoing a major transformation in scope and dimension and plays an increasingly important role in the global economy and in our daily lives Engineers combine automated devices with mathematical and organizational tools to create complex systems for a rapidly expanding range of applications and human activities This handbook incorporates these new developments and presents a widespread and well structured conglomeration of new emerging application areas of automation Besides manufacturing as a primary application of automation the handbook contains new application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics This Springer Handbook is not only an ideal resource for automation experts but also for people new to this expanding field such as engineers medical doctors computer scientists designers It is edited by an internationally renowned and experienced expert Small Business Administration's Computer Systems United States. Congress. House. Committee on Small Business. Subcommittee on General Oversight and the Economy, 1985 Information and Cyber Security Hein Venter, Marianne Loock, Marijke Coetzee, Mariki Eloff, Jan Eloff, 2020-03-07 This book constitutes the refereed proceedings of the 18th International Conference on Information Security ISSA 2019 held in Johannesburg South Africa in August 2019 The 12 revised full papers presented were carefully reviewed and selected from 35 submissions. The papers are dealing with topics such as authentication access control digital cyber forensics cyber security mobile and wireless security privacy preserving protocols authorization trust frameworks security requirements formal security models malware and its mitigation intrusion detection systems social engineering operating systems security browser security denial of service

attacks vulnerability management file system security firewalls Web protocol security digital rights management distributed Computer Safety, Reliability, and Security Maritta Heisel, Peter Liggesmeyer, Stefan systems security Wittmann, 2004-09-09 Theimportance of safety and security is growing steadily Safety is a quality cracteristic that traditionally has been considered to be important in embedded systems and security is usually an essential property in business applications There is certainly a tendency to use software based solutions in safety critical applications domains which increases the importance of safety engineering te niques. These include modelling and analysis techniques as well as appropriate processes. and tools And it is surely correct that the amount of con dential data that require protection from unauthorized access is growing Therefore security is very important On the one hand the traditional motivations for addressing safety and security still exist and their relevance has improved On the other hand safety and security requirements occur increasingly in the same system At present many software based systems interact with technical equipment and they communicate e g with users and other systems Future systems will more and more interact with many other entities technical systems people the en ronment In this situation security problems may cause safety related failures It is thus necessary to address safety and security It is furthermore required to take into account the interactions between these two properties Cognitively Informed Intelligent Interfaces: Systems Design and Development Alkhalifa, Eshaa M., 2012-05-31 Humans interact with the world through perception reason about what they see with their front part of their brains and save what they experience in memory They also however have limitations in their sight hearing working memory and reasoning processes Cognitively Informed Intelligent Interfaces Systems Design and Development analyzes well grounded findings and recent insights on human perception and cognitive abilities and how these findings can and should impact the development and design of applications through the use of intelligent interfaces Many software and systems developers currently address these cognitive issues haphazardly and this reference will bring together clear and concise information to inform and assist all professionals interested in intelligent interfaces from designers to end users

#### **Human Error In Computer Systems** Book Review: Unveiling the Power of Words

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