

*Hfes 2017 Annual Meeting Tentative Session
Schedule Monday*

The adulteration and fraudulent manufacture of medicines is an old problem, vastly aggravated by modern manufacturing and trade. In the last decade, impotent antimicrobial drugs have compromised the treatment of many deadly diseases in poor countries. More recently, negligent production at a Massachusetts compounding pharmacy sickened hundreds of Americans. While the national drugs regulatory authority (hereafter, the regulatory authority) is responsible for the safety of a country's drug supply, no single country can entirely guarantee this today. The once common use of the term counterfeit to describe any drug that is not what it claims to be is at the heart of the argument. In a narrow, legal sense a counterfeit drug is one that infringes on a registered trademark. The lay meaning is much broader, including any drug made with intentional deceit. Some generic drug companies and civil society groups object to calling bad medicines counterfeit, seeing it as the deliberate conflation of public health and intellectual property concerns. Countering the Problem of Falsified and Substandard Drugs accepts the narrow meaning of counterfeit,

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

and, because the nuances of trademark infringement must be dealt with by courts, case by case, the report does not discuss the problem of counterfeit medicines.

This book aims to provide a brief update to the current status of and advances in computational methods and programs used for the development of the theory and practice of biomedical signal and image communication. The book comprises a collection of invited manuscripts, written in a convenient way and of manageable length. These timely collections will provide an invaluable resource for initial inquiries into technologies and will encapsulate the latest developments and applications with reference sources for further detailed information. The methods described in this book cover a wide range of computational algorithms that are widely used in bioengineering and biomedicine. The content and format are specifically designed to stimulate the further development and application of these technologies by reaching out to non-specialists across a broad audience. This book is intended to expose the latest developments of scientists and engineers covering a variety of complementary topics, to enhance people's overall understanding of computer science and biomedical image communications. It will benefit students, scientists, and researchers in applied computer science. Engineers and clinicians

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

working in imaging will also find this book useful.

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.

This book focuses on emerging issues in usability, interface design, human–computer interaction, user experience and assistive technology. It highlights research aimed at understanding human interaction with products, services and systems, and focuses on finding effective approaches for improving user experience. It also discusses key issues in designing and providing assistive devices and services to individuals with disabilities or impairment, to assist

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

mobility, communication, positioning, environmental control and daily living. The book covers modelling as well as innovative design concepts, with a special emphasis on user-centered design, and design for specific populations, particularly the elderly. Virtual reality, digital environments, heuristic evaluation and forms of device interface feedback of (e.g. visual and haptic) are also among the topics covered. Based on the AHFE 2018 Conference on Usability & User Experience and the AHFE 2018 Conference on Human Factors and Assistive Technology, held on July 21–25, 2018, in Orlando, Florida, USA, this book reports on cutting-edge findings, research methods and user-centred evaluation approaches.

Transforming Human Experience Through Symbiotic Technologies

Final Report

Software Engineering for Robotics

Proceedings of the AHFE 2018 International Conferences on Usability & User Experience and Human Factors and Assistive Technology, Held on July 21–25, 2018, in Loews Sapphire Falls Resort at Universal Studios, Orlando, Florida, USA

The Impact of Climate Change on Our Life

An Introduction to Human Factors Engineering

Introduction to Human Factors and Ergonomics

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

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. While a quick response can save you in a time of crisis, avoiding a crisis remains the best defense. When dealing with complex industrial systems, it has become increasingly obvious that preparedness requires a sophisticated understanding of human factors as they relate to the functional characteristics of socio-technology systems. Edited by industrial safety expert Erik Hollnagel and featuring commentary from leaders in the field, Safer Complex Industrial Environments: A Human Factors Approach examines the latest research on the contemporary

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

human factors approach and methods currently in practice. Drawing on examples mainly from the nuclear industry, the book presents a contemporary view on human factors in complex industrial systems. The contributors contrast the traditional view of human factors as a liability with the contemporary view that recognizes human factor as also an asset without which the safe and efficient performance of complex industrial systems would be impossible. It describes how this view has developed in parallel to the increasing complexity and intractability of socio-technical systems and partly as a consequence of that. The book also demonstrates how this duality of the human factor can be reconciled by recognizing that the human and organizational functions that can be the cause of adverse events are also the very foundation for safety. Building on this, the book introduces theories and methods that can be used to describe human and collective performance in a complex socio-technical environment. It explores how contemporary human factors can be used to go beyond failure analysis to actively make complex industrial environments safer.

Apparel production is a complex process often involving an international supply chain which must respond rapidly to the changing needs and tastes of consumers. This important book discusses the technological improvements which are transforming the speed, flexibility and productivity of the industry. The

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

first part of the book reviews advances in apparel design. There are chapters on modelling fabric and garment drape, computer-aided colour matching, yarn design and pattern making. Other chapters discuss key issues in apparel sizing and fit, and the role of 3-D body scanning in improving garment fit and design. The second part of the book surveys advances in production, beginning with product development before looking at advances in knitting, sewing, printing, finishing and fabric inspection. With its distinguished editor and international team of contributors, Advances in apparel production is a standard work for those researching and working in this important industry. Discusses the technological improvements transforming the speed, flexibility and productivity of the industry Examines computer aided colour matching, garment drape and yarn design Explores key issues in apparel sizing and fit, the role of three-dimensional body scanning in improving garment fit and design

Controlling Uncertainty: Decision Making and Learning in Complex Worlds reviews and discusses the most current research relating to the ways we can control the uncertain world around us. Features reviews and discussions of the most current research in a number of fields relevant to controlling uncertainty, such as psychology, neuroscience, computer science and engineering Presents a new framework that is designed to integrate a variety of disparate fields of

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

research Represents the first book of its kind to provide a general overview of work related to understanding control

Psychology in the Classroom

A Teacher's Guide to What Works

Cockpit Resource Management

Advances in Cybernetics, Cognition, and Machine Learning for Communication Technologies

Production, Consumption, and Design Interventions

The Military Surgeon

Decision Making and Learning in Complex Worlds

Lockdown America documents the horrors and absurdities of militarized policing, prisons, a fortified border, and the war on drugs. Its accessible and vivid prose makes clear the links between crime and politics in a period of gathering economic crisis.

This book highlights recent advances in Cybernetics, Machine Learning and Cognitive Science applied to Communications Engineering and Technologies, and presents high-quality research conducted by experts in this area. It provides a valuable reference guide for students, researchers and industry practitioners who want to keep abreast of the latest developments in this dynamic, exciting

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

and interesting research field of communication engineering, driven by next-generation IT-enabled techniques. The book will also benefit practitioners whose work involves the development of communication systems using advanced cybernetics, data processing, swarm intelligence and cyber-physical systems; applied mathematicians; and developers of embedded and real-time systems. Moreover, it shares insights into applying concepts from Machine Learning, Cognitive Science, Cybernetics and other areas of artificial intelligence to wireless and mobile systems, control systems and biomedical engineering. One of the most important aspects for a successful police operation is the ability for the police to obtain timely, reliable and actionable intelligence related to the investigation or incident at hand. Open Source Intelligence (OSINT) provides an invaluable avenue to access and collect such information in addition to traditional investigative techniques and information sources. This book offers an authoritative and accessible guide on how to conduct Open Source Intelligence investigations from data collection to analysis to the design and vetting of OSINT tools. In its pages the reader will find a comprehensive view into the newest methods for OSINT analytics and visualizations in combination with real-life case studies to showcase the application as well as the challenges of OSINT investigations across domains. Examples of OSINT range from information

Monday

posted on social media as one of the most openly available means of accessing and gathering Open Source Intelligence to location data, OSINT obtained from the darkweb to combinations of OSINT with real-time analytical capabilities and closed sources. In addition it provides guidance on legal and ethical considerations making it relevant reading for practitioners as well as academics and students with a view to obtain thorough, first-hand knowledge from serving experts in the field.

Human computer confluence is a research area aimed at developing an effective, even transparent, bidirectional communication between humans and computers, which has the potential to enable new forms of sensing, perception, interaction, and understanding. This book provides a groundbreaking collection of chapters exploring the science, technology and applications of HCC, bringing together experts in neuroscience, psychology and computer science.

The Human Factors Analysis and Classification System

Occupational Health Manual

Countering the Problem of Falsified and Substandard Drugs

Second International Conference, MobiTAS 2020, Held as Part of the 22nd HCI

International Conference, HCII 2020, Copenhagen, Denmark, July 19–24, 2020,

Proceedings, Part I

Outcome Measures for Effective Teamwork in Inpatient Care
Fuzzy Techniques for Decision Making 2018
Current Research and Future Possibilities

This book focuses on different sustainable products and services, such as electrical vehicles, green buildings, and biophilic and biomimetic systems, at multiple hierarchical levels within its chapters. The authors reflect on individual, organisational, governmental, political, and moral considerations of how Human Factor Ergonomics can build a sustainable future. This book is a must-read for anyone concerned with environmental issues and sustainability.

There are at least four reasons why a sleep clinician should be familiar with rating scales that evaluate different facets of sleep. First, the use of scales facilitates a quick and accurate assessment of a complex clinical problem. In three or four minutes (the time to review ten standard scales), a clinician can come to a broad understanding of the patient in question. For example, a selection of scales might indicate that an individual is sleepy but not fatigued; lacking alertness with no insomnia; presenting with no symptoms of narcolepsy or restless legs but showing clear features of apnea; exhibiting depression and a history of significant alcohol problems. This information can be used to direct the consultation to those issues perceived as most relevant, and can even provide a springboard for explaining the benefits of certain treatment approaches or the potential corollaries of allowing the status quo to continue. Second, rating scales can provide a clinician with an enhanced vocabulary or language, improving his or her understanding of each patient. In the case of the sleep specialist, a scale can help him to distinguish fatigue from sleepiness in a patient, or elucidate the differences between sleepiness and alertness (which is not merely the inverse of the former). Sleep scales are

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

*developed by researchers and clinicians who have spent years in their field, carefully honing their preferred methods for assessing certain brain states or characteristic features of a condition. Thus, scales provide clinicians with a repertoire of questions, allowing them to draw upon the extensive experience of their colleagues when attempting to tease apart nuanced problems. Third, some scales are helpful for tracking a patient's progress. A particular patient may not remember how alert he felt on a series of different stimulant medications. Scale assessments administered periodically over the course of treatment provide an objective record of the intervention, allowing the clinician to examine and possibly reassess her approach to the patient. Finally, for individuals conducting a double-blind crossover trial or a straightforward clinical practice audit, those who are interested in research will find that their own clinics become a source of great discovery. Scales provide standardized measures that allow colleagues across cities and countries to coordinate their practices. They enable the replication of previous studies and facilitate the organization and dissemination of new research in a way that is accessible and rapid. As the emphasis placed on evidence-based care grows, a clinician's ability to assess his or her own practice and its relation to the wider medical community becomes invaluable. Scales make this kind of standardization possible, just as they enable the research efforts that help to formulate those standards. The majority of *Rating Scales in Sleep and Sleep Disorders:100 Scales for Clinical Practice* is devoted to briefly discussing individual scales. When possible, an example of the scale is provided so that readers may gain a sense of the instrument's content. Groundbreaking and the first of its kind to conceptualize and organize the essential scales used in sleep medicine, *Rating Scales in Sleep and Sleep Disorders:100 Scales for Clinical Practice* is an invaluable resource for all clinicians and researchers interested in sleep disorders. *Cockpit Resource Management (CRM)* has gained increased attention from the airline industry in*

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

*recent years due to the growing number of accidents and near misses in airline traffic. This book, authored by the first generation of CRM experts, is the first comprehensive work on CRM. Cockpit Resource Management is a far-reaching discussion of crew coordination, communication, and resources from both within and without the cockpit. A valuable resource for commercial and military airline training curriculum, the book is also a valuable reference for business professionals who are interested in effective communication among interactive personnel. Key Features * Discusses international and cultural aspects of CRM * Examines the design and implementation of Line-Oriented Flight Training (LOFT) * Explains CRM, LOFT, and cockpit automation * Provides a case history of CRM training which improved flight safety for a major airline*

Modern workplaces are following a strong trend of increasing flexible working practices and approaches, offering more flexibility in working times, working places, work organization, and work relations as the result of new information and communication technologies. This book brings together a group of internationally recognized experts in the field of flexible work to examine the psychological and social implications of these practices, describing the current state of research and empirically-based practices in this field. It focuses on organizational, job, and individual factors related to the quality of working life, and identifies potential risk groups where the benefits of flexible work are suppressed or not realized. Ideal for organizations implementing or considering implementing flexible work, for professionals and researchers in work and organizational psychology, and for HR professionals, this volume is an invaluable overview of rapidly changing work norms and their impact on working life.

Human Computer Confluence

A Human Error Approach to Aviation Accident Analysis

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

Lockdown America

Flexible Working Practices and Approaches

General Aspects

From Strategy to Implementation

Choke

This book introduces the highly topical issue from many different angles, sensitizing readers to the various challenges to human life posed by climate change, identifying possible intentional and inadvertent anthropogenic factors and consequences, and seeking socially and environmentally viable solutions. The book begins by examining the impact of the climate change discussion on science, politics, economy and culture – from its historical origin in the first Club of Rome Report and its inclusion in the UN's SDGs to the Paris Agreement and beyond. Comprising 12 chapters, it analyses the factors which caused the catastrophic 2014 Kelantan flood in Malaysia, focusing on the Kuala Krai district and discusses mud architecture in Wadi Hadramout, Yemen and mitigating

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

the expected effects of climate change on this unique architecture and cultural heritage. It also examines the economic costs of climate change on health and the increased burden on individual expenditures and national health systems. The role of climate change in the water-energy nexus and efforts to increase efficiency in energy and water end-use to increase Queensland's agricultural sector's resilience in Australia is addressed, as is water security and climate change issues in developing countries and the potential of partnership procurement strategies for managing sustainable urban water supply in Nigerian cities. It also includes a chapter offering a new approach to waste management, exploring to what extent waste can complicate our daily actions and influence environmental decay, and recommending that renewable materials be sorted and separated from other types of materials to avoid cross-contamination, to increase the value of the materials, and to ease the process of manufacturing. Subsequent chapters identify factors sustaining the municipal solid waste

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

management and practices in Ajdabiya city in Libya, and look at accounting disclosure remedies by exploring areas in which sustainability reporting could expand beyond corporate environmental reporting to additional disclosures, curbing recklessness in pursuing merely economic goals. The book shows – from the perspective of agriculture – how human activities can increase the negative impacts of climate change on lifestyle in Malaysia, suggesting alternative lifestyles and encouraging international cooperative efforts. The last chapters evaluate the impacts of various environmental factors on the local tourism sector in Pakistan, and discuss strategies to tackle climate change, focusing on the opportunities and risks of climate engineering. Since these risks encompass inadvertent negative effects and targeted abuse for covert weather warfare and terrorism that violate the UN's ENMOD convention, the author recommends viable alternatives to deal with climate change.

A thorough analysis of contemporary digital media

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

practices, showing how people increasingly not only consume but also produce and even design media. With many new forms of digital media—including such popular social media as Facebook, Twitter, and Flickr—the people formerly known as the audience no longer only consume but also produce and even design media. Jonas Löwgren and Bo Reimer term this phenomenon collaborative media, and in this book they investigate the qualities and characteristics of these forms of media in terms of what they enable people to do. They do so through an interdisciplinary research approach that combines the social sciences and humanities traditions of empirical and theoretical work with practice-based, design-oriented interventions. Löwgren and Reimer offer analysis and a series of illuminating case studies—examples of projects in collaborative media that range from small multidisciplinary research experiments to commercial projects used by millions of people. Löwgren and Reimer discuss the case studies at three levels of analysis: society and the role of collaborative media in societal

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

change; institutions and the relationship of collaborative media with established media structures; and tribes, the nurturing of small communities within a large technical infrastructure. They conclude by advocating an interventionist turn within social analysis and media design.

Explains the brain science behind why some people "choke" under pressure, examining how attention and working memory guide human performance; how experience, practice, and brain development interact; and how these interconnected elements react to stress.

This edited book concerns the real practice of human factors and ergonomics (HF/E), conveying the perspectives and experiences of practitioners and other stakeholders in a variety of industrial sectors, organisational settings and working contexts. The book blends literature on the nature of practice with diverse and eclectic reflections from experience in a range of contexts, from healthcare to agriculture. It explores what helps and what hinders the

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

achievement of the core goals of HF/E: improved system performance and human wellbeing. The book should be of interest to current HF/E practitioners, future HF/E practitioners, allied practitioners, HF/E advocates and ambassadors, researchers, policy makers and regulators, and clients of HF/E services and products.

Journal Of The Association Of Military Surgeons Of The United States;

Law, Business and Society

STOP, THAT and One Hundred Other Sleep Scales

Safer Complex Industrial Environments

Colloidal Suspension Rheology

Introduction to Ergonomics, Second Edition

Computer Methods and Programs in Biomedical Signal and Image Processing

Independent Component Analysis (ICA) is a signal-processing method to extract independent sources given only observed data that are mixtures of the unknown sources. Recently, Blind Source Separation (BSS) by ICA has received considerable attention because of its potential signal-processing

applications such as speech enhancement systems, image processing, telecommunications, medical signal processing and several data mining issues. This book brings the state-of-the-art of some of the most important current research of ICA related to Audio and Biomedical signal processing applications. The book is partly a textbook and partly a monograph. It is a textbook because it gives a detailed introduction to ICA applications. It is simultaneously a monograph because it presents several new results, concepts and further developments, which are brought together and published in the book.

Zadeh's fuzzy set theory incorporates the impreciseness of data and evaluations, by imputting the degrees by which each object belongs to a set. Its success fostered theories that codify the subjectivity, uncertainty, imprecision, or roughness of the evaluations. Their rationale is to produce new flexible methodologies in order to model a variety of concrete decision problems more realistically. This Special Issue garners contributions addressing novel tools, techniques and methodologies for decision making (inclusive of both individual and group, single- or multi-criteria decision making) in the context of these theories. It contains 38 research articles that contribute to a variety of setups that combine fuzziness, hesitancy, roughness, covering sets, and linguistic approaches. Their ranges vary from

fundamental or technical to applied approaches.

The topics covered in this book range from modeling and programming languages and environments, via approaches for design and verification, to issues of ethics and regulation. In terms of techniques, there are results on model-based engineering, product lines, mission specification, component-based development, simulation, testing, and proof. Applications range from manufacturing to service robots, to autonomous vehicles, and even robots that evolve in the real world. A final chapter summarizes issues on ethics and regulation based on discussions from a panel of experts. The origin of this book is a two-day event, entitled RoboSoft, that took place in November 2019, in London. Organized with the generous support of the Royal Academy of Engineering and the University of York, UK, RoboSoft brought together more than 100 scientists, engineers and practitioners from all over the world, representing 70 international institutions. The intended readership includes researchers and practitioners with all levels of experience interested in working in the area of robotics, and software engineering more generally. The chapters are all self-contained, include explanations of the core concepts, and finish with a discussion of directions for further work. Chapters 'Towards Autonomous Robot Evolution', 'Composition, Separation of Roles and Model-Driven Approaches as Enabler

of a Robotics Software Ecosystem' and 'Verifiable Autonomy and Responsible Robotics' are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

When faced with productivity problems in the workplace, engineers might call for better machines, and management might call for better-trained people, but ergonomists call for a better interface and better interaction between the user and the machine. Introduction to Ergonomics, 2nd Edition, provides a comprehensive introduction to ergonomics as the study of the relationship between people and their working environment. The author presents evidence from field trials, studies and experiments that demonstrate the value of ergonomics in making the workplace safer, more error resistant, and compatible with users' characteristics and psychological and social needs. Evidence for the effectiveness of each topic is incorporated throughout the book as well, which helps practitioners to make the case for company investment in ergonomics. In addition, the author outlines international standards for ergonomics that influence engineering and design and pave the way for a more precise form of practice. Extensively revised and updated, this second edition explains the main areas of application, the science that underpins these applications, and demonstrates the cost-effectiveness of implementing the applications in

a wide variety of work settings.

Advances in Usability, User Experience and Assistive Technology

Handbook of Occupational Safety and Health

Collaborative Media

What the Secrets of the Brain Reveal About Getting It Right When You Have To

Clinical Informatics Study Guide

Open Source Intelligence Investigation

HCI in Mobility, Transport, and Automotive Systems. Automated Driving and In-Vehicle Experience Design

For undergraduate courses in Human-Factors Engineering, Human-Computer Interaction, Engineering Psychology, or Human-Factors Psychology. Offering a somewhat more psychological perspective than other human factors books on the market, this text describes the capabilities and limitations of the human operator—both physical and mental—and how these should be used to guide the design of systems with which people interact. General principles of human-system interaction and design are presented, and included are specific examples of successful and unsuccessful interactions. It links theories of human performance that underlie the principles with real-world experience, without a heavy engineering-oriented perspective.

Presented in an accessible and introductory manner, this is the first book devoted to the comprehensive study of colloidal suspensions.

This books provides content that arms clinicians with the core knowledge and competencies necessary to be effective informatics leaders in health care organizations. The content is drawn from the areas recognized

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

by the American Council on Graduate Medical Education (ACGME) as necessary to prepare physicians to become Board Certified in Clinical Informatics. Clinical informaticians transform health care by analyzing, designing, selecting, implementing, managing, and evaluating information and communication technologies (ICT) that enhance individual and population health outcomes, improve patient care processes, and strengthen the clinician-patient relationship. As the specialty grows, the content in this book covers areas useful to nurses, pharmacists, and information science graduate students in clinical/health informatics programs. These core competencies for clinical informatics are needed by all those who lead and manage ICT in health organizations, and there are likely to be future professional certifications that require the content in this text.

Human error is implicated in nearly all aviation accidents, yet most investigation and prevention programs are not designed around any theoretical framework of human error. Appropriate for all levels of expertise, the book provides the knowledge and tools required to conduct a human error analysis of accidents, regardless of operational setting (i.e. military, commercial, or general aviation). The book contains a complete description of the Human Factors Analysis and Classification System (HFACS), which incorporates James Reason's model of latent and active failures as a foundation. Widely disseminated among military and civilian organizations, HFACS encompasses all aspects of human error, including the conditions of operators and elements of supervisory and organizational failure. It attracts a very broad readership. Specifically, the book serves as the main textbook for a course in aviation accident investigation taught by one of the authors at the University of Illinois. This book will also be used in courses designed for military safety officers and flight surgeons in the U.S. Navy, Army and the Canadian Defense Force, who currently utilize the HFACS system during aviation accident investigations. Additionally, the book has been incorporated into the popular workshop on accident analysis and prevention provided by the authors at

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule

Monday

several professional conferences world-wide. The book is also targeted for students attending Embry-Riddle Aeronautical University which has satellite campuses throughout the world and offers a course in human factors accident investigation for many of its majors. In addition, the book will be incorporated into courses offered by Transportation Safety International and the Southern California Safety Institute. Finally, this book serves as an excellent reference guide for many safety professionals and investigators already in the field.

Advanced Learning

Handbook of Human Factors and Ergonomics

The Multisensory Driver

Psychological and Social Implications

Developing Sustainable Business Organizations

Improving System Performance and Human Well-Being in the Real World

Text and Review

The role of HRM in developing sustainable business organizations is increasingly attracting attention. Sustainability can be used as a principle for HRM itself and the tasks of Sustainable HRM are twofold. On the one hand it fosters the conditions for individual employee sustainability and develops the ability of HRM systems to continuously attract, regenerate and develop motivated and engaged employees by making the HRM system itself sustainable. On the other hand Sustainable HRM contributes to the sustainability of the business organizations through cooperation with the top management, key stakeholders and NGOs and by realising economic,

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

ecological, social and human sustainability goals. This book provides a comprehensive review of the new area of Sustainable HRM and of research from different disciplines like sustainable work systems, ergonomics, HRM, linking sustainability and HRM. It brings together the views of academics and practitioners and provides many ideas for conceptual development, empirical exploration and practical implementation. This publication intends to advance the international academic and practice-based debates on the potential of sustainability for HRM and vice versa. In 19 chapters, 26 authors from five continents explore the role of HRM in developing economically, socially and ecologically sustainable organizations, the concept of Sustainable HRM and the role of HRM in developing Sustainable HRM systems and how sustainability and HRM are conceptualized and perceived in different areas of the world.

Written by experienced classroom practitioners who are experts in the field of psychology, *Psychology in the Classroom* provides a thorough grounding in the key principles of psychology and explores how they can be applied to teaching and learning. It draws on both classic and cutting-edge research, offering practical advice on commonly overlooked or misunderstood concepts that contribute to positive academic outcomes. It aims to show the value of psychology in enabling teachers to make and justify everyday classroom decisions. Designed to equip teachers with the skills to identify and tackle common issues that affect students' learning, each chapter highlights key areas of research and discusses how lesson planning and material

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

design can be informed by the psychological concepts presented. It covers core areas essential for improving learning, including: memory and understanding; creativity; motivation; independent learning; resilience; cognition; and self-theories and mindsets. Full of advice and strategies, *Psychology in the Classroom* is aimed at both new and experienced teachers, across primary, secondary and post-16 education, providing them with practical ways to apply these psychological principles in the classroom. With an emphasis on understanding the theories and evidence behind human behaviour, this book will allow you to reflect critically on your own classroom practice, as well as making simple but valuable changes.

Addresses one step in the process of moving from teamwork training to teamwork practices that improve outcomes of care: identifying outcomes that are most likely to be affected as teamwork practices improve in an implementing organization. Discusses a literature search, methods for selecting and testing candidate measures, measures highly rated by clinical experts, and results of measure testing on administrative data of the DoD health system.

A quick, easy-to-consult source of practical overviews on wide-ranging issues of concern for those responsible for the health and safety of workers This new and completely revised edition of the popular Handbook is an ideal, go-to resource for those who need to anticipate, recognize, evaluate, and control conditions that can cause injury or illness to employees in the workplace. Devised as a “ how-to ” guide, it offers a

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

mix of theory and practice while adding new and timely topics to its core chapters, including prevention by design, product stewardship, statistics for safety and health, safety and health management systems, safety and health management of international operations, and EHS auditing. The new edition of Handbook of Occupational Safety and Health has been rearranged into topic sections to better categorize the flow of the chapters. Starting with a general introduction on management, it works its way up from recognition of hazards to safety evaluations and risk assessment. It continues on the health side beginning with chemical agents and ending with medical surveillance. The book also offers sections covering normal control practices, physical hazards, and management approaches (which focuses on legal issues and workers compensation). Features new chapters on current developments like management systems, prevention by design, and statistics for safety and health Written by a number of pioneers in the safety and health field Offers fast overviews that enable individuals not formally trained in occupational safety to quickly get up to speed Presents many chapters in a "how-to" format Featuring contributions from numerous experts in the field, Handbook of Occupational Safety and Health, 3rd Edition is an excellent tool for promoting and maintaining the physical, mental, and social well-being of workers in all occupations and is important to a company ' s financial, moral, and legal welfare.

A Human Factors Approach
State of the Art in Biosensors

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule

Monday

Independent Component Analysis for Audio and Biosignal Applications

Controlling Uncertainty

Work Organization and Methods Engineering for Productivity

Sustainability and Human Resource Management

Implications for Ergonomic Car Interface Design

Work Organization and Methods Engineering for Productivity provides an introduction to, and practical advice on, assessing methods of working to achieve maximum output and efficiency. The main focus of the book is on the 'work study', which helps to increase the productivity of men, machines and materials. We are currently seeing a lot of disruptive advancement in industrial operations caused by technologies, including artificial intelligence and IoT. Against this technological backdrop, and with ever increasing focus on value, the fundamental understanding of how to analyze and organize the workplace for productivity is more important than ever. Case studies and illustrations throughout make this book a much have for managers with responsibility for production and planning in industry. Helps the reader understand the fundamental factors affecting productivity, along with their relevance to work organization Includes valuable industry case studies from sectors including manufacturing, textile production and sea port operations Includes several formats and charts that are important in the recording of data for practical work studies

Driver inattention has been identified as one of the leading causes for car accidents. The problem of distraction while driving is likely to worsen, partly due to increasingly complex in-car technologies. However, intelligent transport systems are being developed to assist drivers and to ensure a safe road

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

environment. One approach to the design of ergonomic automobile systems is to integrate our understanding of the human information processing systems into the design process. This book aims to further the design of ergonomic multisensory interfaces using research from the fast-growing field of cognitive neuroscience. It focuses on two aspects of driver information-processing in particular: multisensory interactions and the spatial distribution of attention in driving. The Multisensory Driver provides interface design guidelines together with a detailed review of current cognitive neuroscience and behavioural research in multisensory human perception, which will help the development of ergonomic interfaces. The discussion on spatial attention is particularly relevant for car interface designers, but it will also appeal to cognitive psychologists interested in spatial attention and the applications of these theoretical research findings. Giving a detailed description of a cohesive series of psychophysical experiments on multisensory warning signals, conducted in both laboratory and simulator settings, this book provides an approach for those in the engineering discipline who wish to test their systems with human observers.

As biosensors comprise a prospective alternative to traditional chemical analyses, enabling fast on- and in-line measurements with sufficient selectivity, the field is expanding rapidly and is offering new ideas and developments every day. This book aims to cover the present state of the art in the biosensor technology and introduce the general aspects of biosensor- based techniques and methods. The book consists of 13 chapters by 44 authors and is divided into 3 sections, focused on bio-recognition techniques, signal transduction methods and signal analysis.

This two-volume set LNCS 12212 and 12213 constitutes the refereed proceedings of the Second

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

International Conference on HCI in Mobility, Transport, and Automotive Systems, MobiTAS 2020, held as part of the 22nd International Conference on Human-Computer Interaction, HCII 2020, in Copenhagen, Denmark, in July, 2020.* A total of 1439 full papers and 238 posters have been carefully reviewed and accepted for publication in HCII 2020. The papers cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. MobiTAS 2020 includes a total of 59 papers and they are organized in the following topical sections: Part I, Automated Driving and In-Vehicle Experience Design: UX topics in automated driving, and designing in-vehicle experiences. Part II, Driving Behavior, Urban and Smart Mobility: studies on driving behavior, and urban and smart mobility. *The conference was held virtually due to the COVID-19 pandemic.

Ergonomics and Human Factors for a Sustainable Future

The Questions of Sustainability

Advances in Apparel Production

Police and Prisons in the Age of Crisis

Human Factors and Ergonomics in Practice

This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most

Bookmark File PDF Hfes 2017 Annual Meeting Tentative Session Schedule Monday

important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.