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W8K2ER - MUHAMMAD SCHMIDT

Experts estimate that as many as 98,000 people die in any given year from medical errors that occur in hospitals. That's more than die from motor vehicle accidents, breast cancer, or AIDS—three causes that receive far more public attention. Indeed, more people die annually from medication errors than from workplace injuries. Add the financial cost to the human tragedy, and medical error easily rises to the top ranks of urgent, widespread public problems. To Err Is Human breaks the silence that has surrounded medical errors and their consequence—but not by pointing fingers at caring health care professionals who make honest mis-

takes. After all, to err is human. Instead, this book sets forth a national agenda—with state and local implications—for reducing medical errors and improving patient safety through the design of a safer health system. This volume reveals the often startling statistics of medical error and the disparity between the incidence of error and public perception of it, given many patients' expectations that the medical profession always performs perfectly. A careful examination is made of how the surrounding forces of legislation, regulation, and market activity influence the quality of care provided by health care organizations and then looks at their handling of medical mistakes. Using a detailed case study,

the book reviews the current understanding of why these mistakes happen. A key theme is that legitimate liability concerns discourage reporting of errors—“which begs the question, “How can we learn from our mistakes?” Balancing regulatory versus market-based initiatives and public versus private efforts, the Institute of Medicine presents wide-ranging recommendations for improving patient safety, in the areas of leadership, improved data collection and analysis, and development of effective systems at the level of direct patient care. To Err Is Human asserts that the problem is not bad people in health care—it is that good people are working in bad systems that need to be made safer. Comprehensive and straightforward, this book offers a clear prescription for raising the level of patient safety in American health care. It also explains how patients themselves can influence the quality of care that they receive once they check into the hospital. This book will be vitally important to federal, state, and local health policy makers and regulators, health professional licensing officials, hospital administrators, medical educators and students, health caregivers, health journalists, patient advocates—as well as patients themselves. First in a series of publications from the Quality of Health Care in America, a project initiated by the Institute of Medicine

Ann Macintosh Napier University, UK The papers in this volume are the refereed application papers presented at ES2000, the Twentieth SGES International Conference on Knowledge Based Systems and Applied Artificial Intelligence, held in Cambridge in December 2000. The scope of the Application papers has expanded over recent years to cover not just innovative applications using traditional knowledge based systems, but also to include appli-

cations demonstrating the whole range of AI technologies. This volume contains thirteen refereed papers describing deployed applications or emerging applications, together with an invited keynote paper by Dr. Daniel Clancy of NASA Ames Research Centre. The papers were subject to refereeing by at least two “expert” referees. All papers which were controversial for some reason were discussed in depth by the Application Programme Committee. For the application stream, a paper is acceptable even if it describes a system which has not yet been installed, provided the application is original and the paper discusses the kinds of things that would help others needing to solve a similar problem. Papers have been selected to highlight critical areas of success (and failure) and to present the benefits and lessons learnt to other developers. Papers this year cover topics as diverse as: KBS for maintaining offshore platforms; Data Mining to predict corporate business failure; integrated AI techniques to support field service engineers; Natural Language applied to the Data Protection Act; knowledge management and the application of neural networks.

The computer recognition systems are nowadays one of the most promising directions in artificial intelligence. This book is the most comprehensive study of this field. It contains a collection of 86 carefully selected articles contributed by experts of pattern recognition. It reports on current research with respect to both methodology and applications. In particular, it includes the following sections: Biometrics Data Stream Classification and Big Data Analytics Features, learning, and classifiers Image processing and computer vision Medical applications Miscellaneous applications Pattern recognition and image processing in robotics Speech and

word recognition This book is a great reference tool for scientists who deal with the problems of designing computer pattern recognition systems. Its target readers can be the as well researchers as students of computer science, artificial intelligence or robotics. These Transactions publish research in computer-based methods of computational collective intelligence (CCI) and their applications in a wide range of fields such as the Semantic Web, social networks and multiagent systems. TCCI strives to cover new methodological, theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals (artificial and/or natural). The application of multiple computational intelligence technologies such as fuzzy systems, evolutionary computation, neural systems, consensus theory, etc., aims to support human and other collective intelligence and to create new forms of CCI in natural and/or artificial systems. This eighth issue contains a collection of ten carefully selected and thoroughly revised contributions.

Databases and information systems are the backbone of modern information technology and are crucial to the IT systems which support all aspects of our everyday life; from government, education and healthcare, to business processes and the storage of our personal photos and archives. This book presents 22 of the best revised papers accepted following stringent peer review for the 11th International Baltic Conference on Databases and Information Systems (Baltic DB&IS 2014), held in Tallinn, Estonia, in June 2014. The conference provided a forum for the exchange of scientific achievements between the research communities of the Baltic countries and the rest of the world in the area of databases

and information systems, bringing together researchers, practitioners and Ph.D. students from many countries. The subject areas covered at the conference focused on big data processing, data warehouses, data integration and services, data and knowledge management, e-government, as well as e-services and e-learning.

#1 NEW YORK TIMES BESTSELLER • OPRAH'S BOOK CLUB PICK • "An instant American classic and almost certainly the keynote nonfiction book of the American century thus far."—Dwight Garner, The New York Times The Pulitzer Prize-winning, bestselling author of *The Warmth of Other Suns* examines the unspoken caste system that has shaped America and shows how our lives today are still defined by a hierarchy of human divisions. #1 NONFICTION BOOK OF THE YEAR: Time ONE OF THE BEST BOOKS OF THE YEAR: The Washington Post, The New York Times, Los Angeles Times, The Boston Globe, O: The Oprah Magazine, NPR, Bloomberg, The Christian Science Monitor, New York Post, The New York Public Library, Fortune, Smithsonian Magazine, Marie Claire, Slate, Library Journal, Kirkus Reviews Winner of the Carl Sandberg Literary Award • Winner of the Los Angeles Times Book Prize • National Book Award Longlist • National Book Critics Circle Award Finalist • Dayton Literary Peace Prize Finalist • PEN/John Kenneth Galbraith Award for Nonfiction Finalist • PEN/Jean Stein Book Award Longlist • Kirkus Prize Finalist "As we go about our daily lives, caste is the wordless usher in a darkened theater, flashlight cast down in the aisles, guiding us to our assigned seats for a performance. The hierarchy of caste is not about feelings or morality. It is about power—which groups have it and which do not." In this brilliant book, Isabel Wilkerson gives us a masterful portrait

of an unseen phenomenon in America as she explores, through an immersive, deeply researched, and beautifully written narrative and stories about real people, how America today and throughout its history has been shaped by a hidden caste system, a rigid hierarchy of human rankings. Beyond race, class, or other factors, there is a powerful caste system that influences people's lives and behavior and the nation's fate. Linking the caste systems of America, India, and Nazi Germany, Wilkerson explores eight pillars that underlie caste systems across civilizations, including divine will, bloodlines, stigma, and more. Using riveting stories about people—including Martin Luther King, Jr., baseball's Satchel Paige, a single father and his toddler son, Wilkerson herself, and many others—she shows the ways that the insidious undertow of caste is experienced every day. She documents how the Nazis studied the racial systems in America to plan their out-casting of the Jews; she discusses why the cruel logic of caste requires that there be a bottom rung for those in the middle to measure themselves against; she writes about the surprising health costs of caste, in depression and life expectancy, and the effects of this hierarchy on our culture and politics. Finally, she points forward to ways America can move beyond the artificial and destructive separations of human divisions, toward hope in our common humanity. Original and revealing, *Caste: The Origins of Our Discontents* is an eye-opening story of people and history, and a re-examination of what lies under the surface of ordinary lives and of American life today.

Interoception, a newly identified eighth sense, allows us to "feel our internal organs and skin and gives information regarding the internal state or condition of our body." As such it is also a key

component of our emotional experience. This is an area of difficulty for many, including those with autism spectrum disorders. The book reviews the research underlying the effects of poor interoception and outlines strategies for how to ameliorate these effects.--Publisher.

This volume contains the refereed and invited papers from the eleventh annual conference of the British Computer Society's Specialist Group on Expert Systems, held in London in September 1991.

Intended for a one-semester course in Accounting Information Systems taught at the sophomore, junior, or senior level at most two- and four-year schools. This revision is completely streamlined, includes new pedagogy, and is accompanied by a CD-ROM containing added coverage, making it flexible enough to suit a variety of different approaches to the course.

From bestselling writer David Graeber—"a master of opening up thought and stimulating debate" (Slate)—a powerful argument against the rise of meaningless, unfulfilling jobs...and their consequences. Does your job make a meaningful contribution to the world? In the spring of 2013, David Graeber asked this question in a playful, provocative essay titled "On the Phenomenon of Bullshit Jobs." It went viral. After one million online views in seventeen different languages, people all over the world are still debating the answer. There are hordes of people—HR consultants, communication coordinators, telemarketing researchers, corporate lawyers—whose jobs are useless, and, tragically, they know it. These people are caught in bullshit jobs. Graeber explores one of society's most vexing and deeply felt concerns, indicting among

other villains a particular strain of finance capitalism that betrays ideals shared by thinkers ranging from Keynes to Lincoln. “Clever and charismatic” (The New Yorker), *Bullshit Jobs* gives individuals, corporations, and societies permission to undergo a shift in values, placing creative and caring work at the center of our culture. This book is for everyone who wants to turn their vocation back into an avocation and “a thought-provoking examination of our working lives” (Financial Times).

UNDERSTANDING OPERATING SYSTEMS provides a basic understanding of operating systems theory, a comparison of the major operating systems in use, and a description of the technical and operational tradeoffs inherent in each. The effective two-part organization covers the theory of operating systems, their historical roots, and their conceptual basis (which does not change substantially), culminating with how these theories are applied in the specifics of five operating systems (which evolve constantly). The authors explain this technical subject in a not-so-technical manner, providing enough detail to illustrate the complexities of stand-alone and networked operating systems. *UNDERSTANDING OPERATING SYSTEMS* is written in a clear, conversational style with concrete examples and illustrations that readers easily grasp.

Fuzzy logic is vital to applications in the electrical, industrial, chemical and engineering realms, as well as in areas of management and environmental issues. Data mining is indispensable in dealing with big data, massive data, and scalable, parallel and distributed algorithms. This book presents papers from FSDM 2022, the 8th International Conference on Fuzzy Systems and Data Mining. The conference, originally scheduled to take place in Xiamen, China, was held fully online from 4 to 7 November 2022, due to

ongoing restrictions connected with the COVID-19 pandemic. This year, FSDM received 196 submissions, of which 47 papers were ultimately selected for presentation and publication after a thorough review process, taking into account novelty, and the breadth and depth of research themes falling under the scope of FSDM. This resulted in an acceptance rate of 23.97%. Topics covered include fuzzy theory, algorithms and systems, fuzzy applications, data mining and the interdisciplinary field of fuzzy logic and data mining. Offering an overview of current research and developments in fuzzy logic and data mining, the book will be of interest to all those working in the field of data science.

As the global economic crisis raises alarm – not least for its likely effects on overseas development assistance – this book offers a critical analysis of aid to Africa from the diverse perspectives of African academics and activists.

This proceedings book constitutes the refereed proceedings of the 8th International Conference on Advanced Intelligent Systems and Informatics (AISI 2021), which took place in Cairo, Egypt, during November 20–22, 2022, and is an international interdisciplinary conference that presents a spectrum of scientific research on all aspects of informatics and intelligent systems, technologies, and applications.

Features - additional services - occur whenever organisations compete by differentiating their products from those of rival organisations. Adding one feature may break another, or interfere with it in an undesired way. This phenomenon is called feature interaction. This book explores ways in which the feature interaction problem may be mitigated.

This book is devoted to applications of singularity theory in mathematics and physics, covering a broad spectrum of topics and problems. "The book contains a huge amount of information from all the branches of Singularity Theory, presented in a very attractive way, with lots of inspiring pictures." --ZENTRALBLATT MATH

Proceedings of the Eighth Power Systems Computation Conference

This fascinating book presents the unusual career of a scientist of Chinese Malaysian origin, Ho Peng Yoke, who became a humanist and rendered his services to both Eastern and Western intellectual worlds. It describes how Ho adapted to working under changing social and academic environments in Singapore, Malaysia, Australia, Hong Kong and England. His activities also covered East Asia, Europe and North America. Ho Peng Yoke worked in collaboration with Joseph Needham of Cambridge over different periods spanning half a century in the monumental series Science and Civilization in China. Ho subsequently succeeded Needham as Director of the Needham Research Institute, where he held the post for 12 years. In the introduction to the final volume of that series, the Oxford scholar Mark Elvin remarked that Ho "had long piloted the ship through difficult times." This book tells the story and more.

Provides an in-depth overview of the Federal Reserve System, including information about monetary policy and the economy, the Federal Reserve in the international sphere, supervision and regulation, consumer and community affairs and services offered by Reserve Banks. Contains several appendixes, including a brief explanation of Federal Reserve regulations, a glossary of terms, and

a list of additional publications.

TRIZ is a brilliant toolkit for nurturing engineering creativity and innovation. This accessible, colourful and practical guide has been developed from problem-solving workshops run by Oxford Creativity, one of the world's top TRIZ training organizations started by Gadd in 1998. Gadd has successfully introduced TRIZ to many major organisations such as Airbus, Sellafeld Sites, Saint-Gobain, DCA, Doosan Babcock, Kraft, Qinetiq, Trelleborg, Rolls Royce and BAE Systems, working on diverse major projects including next generation submarines, chocolate packaging, nuclear clean-up, sustainability and cost reduction. Engineering companies are increasingly recognising and acting upon the need to encourage successful, practical and systematic innovation at every stage of the engineering process including product development and design. TRIZ enables greater clarity of thought and taps into the creativity innate in all of us, transforming random, ineffective brainstorming into targeted, audited, creative sessions focussed on the problem at hand and unlocking the engineers' knowledge and genius to identify all the relevant solutions. For good design engineers and technical directors across all industries, as well as students of engineering, entrepreneurship and innovation, TRIZ for Engineers will help unlock and realise the potential of TRIZ. The individual tools are straightforward, the problem-solving process is systematic and repeatable, and the results will speak for themselves. This highly innovative book: Satisfies the need for concise, clearly presented information together with practical advice on TRIZ and problem solving algorithms Employs explanatory techniques, processes and examples that have been used to train thousands of engineers to use TRIZ successfully Contains re-

al, relevant and recent case studies from major blue chip companies is illustrated throughout with specially commissioned full-colour cartoons that illustrate the various concepts and techniques and bring the theory to life Turns good engineers into great engineers.

Covers receipts and expenditures of appropriations and other funds.

Peace Studies, Public Policy and Global Security is a component of Encyclopedia of Social Sciences and Humanities in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The Theme on Peace Studies, Public Policy and Global Security provides the essential aspects and a myriad of issues of great relevance to our world such as: Processes of Peace and Security; International Security, Peace, Development, and Environment; Security Threats, Challenges, Vulnerability and Risks; Sustainable Food and Water Security; World Economic Order. This 11-volume set contains several chapters, each of size 5000-30000 words, with perspectives, issues on Peace studies, Public Policy and Global security. These volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs.

The purpose of this symposium is to bring together scientists working on continuum theories of discrete mechanical and thermodynamical systems in the realm of mathematics, theoretical and applied mechanics, physics, material science and engineering. It aims to join together the divergent languages, questions

and methods developed in the respective disciplines and to stimulate broad interdisciplinary exchange of ideas and results. The main topics, discussed in the lectures, concern thermodynamics, transport theory, statistical mechanics; continuum mechanics of complex fluids and deformable solids with microstructure; continuum theory of living structures; defect dynamics, synergetics, solitons, coherent structures; dislocations and plasticity; fundamentals of fracture mechanics.

The Second Edition of Control Systems Engineering provides a clear and thorough introduction to controls. Designed to motivate readers' understanding, the text emphasizes the practical application of systems engineering to the design and analysis of feedback systems. In a rich pedagogical style, Nise motivates readers by applying control systems theory and concepts to real-world problems. The text's updated content teaches readers to build control systems that can support today's advanced technology.

This volume is a collection of ten papers by contributors F. Smarandache, F. Yuhua, K. Mondal, S. Pramanik, S. Broumi, J. Ye, A. A. Salama,, N. Easa, S. A. Elhafez, M. M. Lotfy, L. Kong, Y. Wu, P. Biswas, B. C. Giri, A. Mukkerjee, and S. Sarkar, focusing on a new kind of algebraic structures called (T, I, F)- Neutrosophic Structures; Expanding Uncertainty Principle to Certainty-Uncertainty Principles with Neutrosophy and Quad-stage Methods; Rough Neutrosophic Multi-Attribute Decision-Making Based on Rough Accuracy Score Function; an Extended TOPSIS Method for Multiple Attribute Decision Making based on Interval Neutrosophic Uncertain Linguistic Variable; Review of Recommender Systems Algorithms Utilized in Social Networks based e-Learning Systems

& Neutrosophic System; Fault Diagnosis Method of Gasoline Engines Using the Cosine Similarity Measure of Neutrosophic Numbers; Cosine Similarity Measure Based Multi-attribute Decision-making with Trapezoidal Fuzzy Neutrosophic Numbers; Thesis-Antithesis-Neutrothesis, and Neutrosynthesis; Negating Four Color Theorem with Neutrosophy and Quadstage Method; and A new method of measuring similarity between two neutrosophic soft sets and its application in pattern recognition problems.

This book constitutes the proceedings of the 4th International Conference on Decision Support Systems, ICDSST 2018, held in Heraklion, Greece, in May 2018. The main topic of this year's conference was "Sustainable Data-Driven and Evidence Based Decision Support". The 15 papers presented in this volume were carefully reviewed and selected from 71 submissions. They were organized in topical sections named: decision support systems for a sustainable society; decision support systems serving the public; decision support systems in management and organization; and advances in decision support systems' technologies and methods. The EWG-DSS series of International Conference on Decision Support System Technology (ICDSST), starting with ICDSST 2015 in Belgrade, were planned to consolidate the tradition of annual events organized by the EWG-DSS in offering a platform for European and international DSS communities, comprising the academic and industrial sectors, to present state-of-the-art DSS research and developments, to discuss current challenges that surround decision-making processes, to exchange ideas about realistic and innovative solutions, and to co-develop potential business opportunities.

The LNCS journal Transactions on Large-Scale Data- and Knowl-

edge-Centered Systems focuses on data management, knowledge discovery, and knowledge processing, which are core and hot topics in computer science. Since the 1990s, the Internet has become the main driving force behind application development in all domains. An increase in the demand for resource sharing across different sites connected through networks has led to an evolution of data- and knowledge-management systems from centralized systems to decentralized systems enabling large-scale distributed applications providing high scalability. Current decentralized systems still focus on data and knowledge as their main resource. Feasibility of these systems relies basically on P2P (peer-to-peer) techniques and the support of agent systems with scaling and decentralized control. Synergy between grids, P2P systems, and agent technologies is the key to data- and knowledge-centered systems in large-scale environments. This, the eighth issue of Transactions on Large-Scale Data- and Knowledge-Centered Systems, contains eight revised selected regular papers focusing on the following topics: scalable data warehousing via MapReduce, extended OLAP multidimensional models, naive OLAP engines and their optimization, advanced data stream processing and mining, semi-supervised learning of data streams, incremental pattern mining over data streams, association rule mining over data streams, frequent pattern discovery over data streams.

Advances of information and communications technologies have created new forces in managing organizations. These forces are leading modern organizations to reassess their current structures to become more effective in the growing global economy. This Proceedings is aimed at the challenges involved in effective util-

ization and management of technologies in contemporary organizations.

IWPTS'95 (International Workshop on Protocol Test Systems) is being held this year at INNT (Institut National des Telecommunications), Evry, France, from 4 to 6 September, 1995. IWPTS'95 is the eighth of a series of annual meetings sponsored by the IFIP Working Group WG6.1 dedicated to "Architecture and Protocols for Computer Networks". The seven previous workshops were held in Vancouver (Canada, 1988), Berlin (Germany, 1989), Mclean (USA, 1990), Leidschendam (The Netherlands, 1991), Montreal (Canada, 1992), Pau (France, 1993) and Tokyo (Japan, 1994). The workshop is a meeting place where both research and industry, theory and practice come together. By bringing both researchers and practitioners together, IWPTS opens up the communication between these groups. This helps keep the research vital and improves the state of the practitioner's art. Forty-eight papers have been submitted to IWPTS'95 and all of them have been reviewed by the members of the Program Committee and additional reviewers. The completed reviewers list is included in this Proceedings. Based on these reviews, the Program Committee selected 26 for oral presentation and 4 to be presented as posters. Two specially invited papers complete the Workshop Program, which is composed of ten sessions: Testing Methods (Session 1), Test Environments (Session 2), Theoretical Framework (Session 3), Algorithms and Languages (Session 4), Test Generation 1 (Session 5), Testability (Session 6), Test Generation 2 (Session 7), Industrial Applications (Session 8), Distributed Testing and performance (Session 9) and Test Management (Session 10).

This book contains the papers from the 2013 International Conference on Compressors and Their Systems, held from 9-10 September at City University London. The long-running conference series is the ultimate global forum for reviewing the latest developments and novel approaches in compressor research. High-quality technical papers are sourced from around the globe, covering technology development, operation, maintenance and reliability, safety and environmental impact, energy efficiency and carbon footprint, system integration and behaviour, upgrades and refurbishment, design and manufacture, education and professional development. All the papers are previously unpublished and constitute leading edge research. Presents leading edge developments in compressor technology Gives the latest prediction and modelling techniques Details the new technology and machinery Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book

identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one

Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

This book presents the outcomes of the 8th International Conference in Methodologies and Intelligent Systems for Technology Enhanced Learning held in Toledo (Spain) hosted by the University of Castilla-La Mancha from 20th to 22nd June 2018. Further expanding the topics of the previous editions, the conference provided an open forum for discussing intelligent systems for technology enhanced learning (TEL) and their roots in novel learning theories, empirical methodologies for their design or evaluation, stand-alone and web-based solutions and maker spaces, and also fostering entrepreneurship and increasing business startup ideas. It brought together researchers and developers from industry, the education field and the academic world to report on the latest scientific research, technical advances and methodologies.