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Journal of Rehabilitation R & D Springer Science & Business Media

These proceedings of the Third European Workshop on Structural Health Monitoring held at the Conference Centre in Granada, Spain, in July of 2006 includes four keynote presentations and 170 technical papers written by an international group of contributors. Papers discuss technology and activities related to damage detection and evaluation in engine

Adaptive Power Quality for Power Management Units using Smart Technologies CRC Press

A smart civil structure integrates smart materials, sensors, actuators, signal processors, communication networks, power sources, diagonal strategies, control strategies, repair strategies, and life-cycle management strategies. It should function optimally and safely in its environment and maintain structural integrity during strong winds, severe earthquakes, and other extreme events. This book extends from the fundamentals to the state-of-the-art. It covers the elements of smart civil structures, their integration, and their functions. The elements consist of smart materials, sensors, control devices, signal processors, and communication networks. Integration refers to multi-scale modelling and model updating, multi-type sensor placement, control theory, and collective placement of control devices and sensors. And the functions include structural health monitoring, structural vibration control, structural self-repairing, and structural energy harvesting, with emphasis on their synthesis to form truly smart civil structures. It suits civil engineering students, professionals, and researchers with its blend of principles and practice.

Design Modulus Values Using Seismic Moduli (SMART Users Manual) IGI Global

This book highlights cutting-edge research presented at the third installment of the International Conference on Smart City Applications (SCA2018), held in Tétouan, Morocco on October 10–11, 2018. It presents original research results, new ideas, and practical lessons learned that touch on all aspects of smart city applications. The respective papers share new and highly original results by leading experts on IoT, Big Data, and Cloud technologies, and address a broad range of key challenges in smart cities, including Smart Education and Intelligent Learning Systems, Smart Healthcare, Smart Building and Home Automation, Smart Environment and Smart Agriculture, Smart Economy and Digital Business, and Information Technologies and Computer Science, among others. In addition, various novel proposals regarding smart cities are discussed. Gathering peer-reviewed chapters written by prominent researchers from around the globe, the book offers an invaluable instructional and research tool for courses on computer and urban sciences; students and practitioners in computer science, information science, technology studies and urban management studies will find it particularly useful. Further, the book is an excellent reference guide for professionals and researchers working in mobility, education, governance, energy, the environment and computer sciences.

Smart Connection Systems CRC Press

The four-volume set LNCS 11583, 11584, 11585, and 11586 constitutes the proceedings of the 8th International Conference on Design, User Experience, and Usability, DUXU 2019, held as part of the 21st International Conference, HCI International 2019, which took place in Orlando, FL, USA, in July 2019. The total of 1274 papers and 209 posters included in the 35 HCII 2019 proceedings volumes was carefully reviewed and selected from 5029 submissions. DUXU 2019 includes a total of 167 regular papers, organized in the following topical sections: design philosophy; design theories, methods, and tools; user requirements, preferences emotions and personality; visual DUXU; DUXU for novel interaction techniques and devices; DUXU and robots; DUXU for AI and AI for DUXU; dialogue, narrative, storytelling; DUXU for automated driving, transport, sustainability and smart cities; DUXU for cultural heritage; DUXU for well-being; DUXU for learning; user experience evaluation methods and tools; DUXU practice; DUXU case studies.

Smart Technologies for Precision Assembly CRC Press

Christian Schierenbeck makes a provocative case that higher

education across the globe suffers from a profound productivity crisis which prevents broad access to affordable and high-quality educational services. He shows how the vast productivity gap in higher education could be closed if academic managers borrowed some of the managerial practices applied by the world's leading business enterprises. In order for this to happen in practice, the author argues for radical changes in the policy framework for higher education.

Intelligent Tutoring Systems in E-Learning Environments:

Design, Implementation and Evaluation Food & Agriculture Org.

New generations of IT users are increasingly abstracted from the underlying devices and platforms that provide and safeguard their services. As a result they may have little awareness that they are critically dependent on the embedded security devices that are becoming pervasive in daily modern life. Secure Smart Embedded Devices, Platforms and Applications provides a broad overview of the many security and practical issues of embedded devices, tokens, and their operation systems, platforms and main applications. It also addresses a diverse range of industry/government initiatives and considerations, while focusing strongly on technical and practical security issues. The benefits and pitfalls of developing and deploying applications that rely on embedded systems and their security functionality are presented. A sufficient level of technical detail to support embedded systems is provided throughout the text, although the book is quite readable for those seeking awareness through an initial overview of the topics. This edited volume benefits from the contributions of industry and academic experts and helps provide a cross-discipline overview of the security and practical issues for embedded systems, tokens, and platforms. It is an ideal complement to the earlier work, Smart Cards Tokens, Security and Applications from the same editors. Smart Electromechanical Systems: The Central Nervous System Springer

Ambient intelligence (AI) refers to a developing technology that will increasingly make our everyday environment sensitive and responsive to our presence. The AI vision requires technology invisibly embedded in our everyday surroundings, present whenever we need it that will lead to the seamless integration of lighting, sounds, vision, domestic appliances, and personal healthcare products to enhance our living experience. Written for the non-specialist seeking an authoritative but accessible overview of this interdisciplinary field, True Visions explains how the devices making up the AI world will operate collectively using information and intelligence hidden in the wireless network connecting them. Expert contributions address key AI components such as smart materials and textiles, system architecture, mobile computing, broadband communication, and underlying issues of human-environment interactions. It seeks to unify the perspectives of scientists from diverse backgrounds ranging from the physics of materials to the aesthetics of industrial design as it describes the emergence of ambient intelligence, one of today's most compelling areas

of innovation.

International Place Branding Yearbook 2012 CRC Press

This manual is designed for a four-day training course on climate-smart agriculture that would take the learner from the basics of climate science to the impacts of climate change and the linkages among climate, agriculture and food security. It contains four modules, each addressing a particular aspect and consisting of several sessions that are held either in plenary, as one group, or in smaller work groups. The content and structure of this manual has been developed and tested through fieldwork involving extension agents and agricultural producers in Zambia, Malawi and Viet Nam. *Smart Technologies: Breakthroughs in Research and Practice* Springer Nature

This book explores the latest developments in the field of smart tourism, focusing in particular on the important cultural and sustainability synergies that have emerged during the digital era. The aim is to elucidate how ICTs can promote innovation and creativity in the tourism and leisure sector in ways that take into account cultural and social responsibilities, foster sustainable tourism management, and enhance cultural tourism, cultural heritage, and sustainable development. The book is based on the proceedings of the Fifth International Conference of the International Association of Cultural and Digital Tourism (IACuDiT), attended by academics and industry practitioners from cultural, heritage, communication, and innovational tourism backgrounds, and is edited in collaboration with IACuDiT. It will have broad appeal to professionals from academia, industry, government, and other organizations who wish to learn about novel perspectives in the fields of tourism, travel, hospitality, culture and heritage, leisure, and sports within the context of a knowledge society and smart economy in which sustainability is becoming ever more important.

Secure Smart Embedded Devices, Platforms and Applications IGI Global

Each book is summarised to convey a brief idea of what each one has to offer the interested reader, while a 'Speed Read' for each book delivers a quick sense of what each book is like to read and a highly compressed summary of the main points of the book in question. The titles covered include thought-provoking classics on psychology, mindfulness, rationality, the brain, mathematical and economic thought and practical philosophy. The selection includes books about self-improvement as well as historically interesting accounts of how the mind works. Titles included go back as far as the Epictetus classic *The Enchiridion* and Bertrand Russell's charming *The ABC of Relativity*, and proceed through classics such as Edward de Bono's *Lateral Thinking* and into the digital era with titles such as *The Shallows* and *Big Data*. The books are arranged chronologically, which draws attention to some of the interesting juxtapositions and connections between them. Some of the titles included are: *Freakonomics*, by Steven D. Levitt; *Blink: The Power of Thinking Without Thinking*, by Malcolm Gladwell; *Sapiens: A Brief History of Humankind*, by Yuval Noah Harari; *The Organized Mind: Thinking Straight in the Age of Information Overload*, by Daniel J. Levitin; *The Descent of Man*, by Grayson Perry; *How the Mind Works*, by Steven Pinker; *Black Box Thinking: Why Some People Never Learn*

from Their Mistakes - But Some Do, by Matthew Syed; We Should All Be Feminists, by Chimamanda Ngozi Adichie; Guns, Germs, and Steel: The Fates of Human Societies, by Jared Diamond; The Black Swan: The Impact of the Highly Improbable, by Nassim Nicholas Taleb; Man's Search for Meaning, by Viktor E. Frankl; The News: A User's Manual, by Alain de Botton; Mindware: Tools for Smart Thinking, by Richard E. Nisbett; The ABC of Relativity, by Bertrand Russell; The Psychopath Test, by Jon Ronson; The Path: What Chinese Philosophers Can Teach Us About the Good Life, by Michael Puett; A Brief History of Time, by Stephen Hawking; Messy: The Power of Disorder to Transform Our Lives, by Tim Harford; Big Data: A Revolution That Will Transform How We Live, Work, and Think, by Viktor Mayer-Schönberger; Moneyball: The Art of Winning an Unfair Game, by Michael Lewis; The Survivors Club: The Secrets and Science That Could Save Your Life, by Ben Sherwood; Black Box Thinking, by Matthew Syed; Chaos: Making a New Science, by James Gleick; A Short History of Nearly Everything, by Bill Bryson; The Shallows: What the Internet Is Doing to Our Brains, by Nicholas Carr; Making Ideas Happen: Overcoming the Obstacles Between Vision and Reality, by Scott Branson; The Enchiridion, by Epictetus; Gödel, Escher, Bach, by Douglas R. Hofstadter; What I Talk About When I Talk About Running, by Haruki Murakami; and Lateral Thinking, by Edward de Bono.

Structural Health Monitoring 2006 Springer

This open access book constitutes the refereed post-conference proceedings of the 9th IFIP WG 5.5 International Precision Assembly Seminar, IPAS 2020, held virtually in December 2020. The 16 revised full papers and 10 revised short papers presented together with 1 keynote paper were carefully reviewed and selected from numerous submissions. The papers address topics such as assembly design and planning; assembly operations; assembly cells and systems; human centred assembly; and assistance methods in assembly.

Computing in Smart Toys CRC Press

"The more we know about smart and intelligent systems and their use, the more productive organizations can become, and the more quality of life will improve."—Gavriel Salvendy, President Academy of Science, Engineering and Medicine of Florida, University Distinguished Professor University of Central Florida "Robots, drones, self-driving cars, and personal assistants are only some of the 'intelligent' and 'smart' systems which are populating our world and changing the way we use technology to carry out our everyday activities, bringing about both exciting opportunities for human-technology symbiosis, as well as compelling design and development challenges. Through a carefully selected choice of chapters, authored by top scientists in the field, this book, edited by Abbas Moallem, sheds light on fundamental aspects of intelligent and smart systems, investigating the role and impact of affective and psychophysiological computing, machine learning, cybersecurity, agent transparency, and human-agent teaming in the shaping of this new interaction paradigm, as well as the human factors involved in their application in critical domains such as health, education, and manufacturing in the emerging technological landscape."—Constantine Stephanidis, Professor of Computer Science, University of Crete, Distinguished member of Foundation for Research and Technology - Hellas (FORTH) In today's digital world, the words "smart" and "intelligent" are now used to label devices, machinery, systems, and even environments. What is a "smart" system? Is "smart" synonymous with "intelligent"? If not, what does an "intelligent system" mean? Are all smart systems intelligent? This book tries to answer these questions by summarizing the existing research in various areas and providing new research findings. Smart and Intelligent Systems: The Human Elements in

Artificial Intelligence, Robotics, and Cybersecurity presents new areas of smart and intelligent system design. It defines smart and intelligent systems, offers a human factors approach, discusses networking applications, and combines the human element with smart and intelligent systems. This book is perfect for engineering students in data sciences and artificial intelligence and practitioners at all levels in the fields of human factors and ergonomics, systems engineering, computer science, software engineering, and robotics.

Smart Cameras CRC Press

This book provides a multidisciplinary view of smart infrastructure through a range of diverse introductory and advanced topics. The book features an array of subjects that include: smart cities and infrastructure, e-healthcare, emergency and disaster management, Internet of Vehicles, supply chain management, eGovernance, and high performance computing. The book is divided into five parts: Smart Transportation, Smart Healthcare, Miscellaneous Applications, Big Data and High Performance Computing, and Internet of Things (IoT). Contributions are from academics, researchers, and industry professionals around the world. Features a broad mix of topics related to smart infrastructure and smart applications, particularly high performance computing, big data, and artificial intelligence; Includes a strong emphasis on methodological aspects of infrastructure, technology and application development; Presents a substantial overview of research and development on key economic sectors including healthcare and transportation.

Design, User Experience, and Usability. User Experience in Advanced Technological Environments Woodhead Publishing

Nowadays networks, microprocessors, memory chips, smart sensors and actuators are faster, cheaper and smaller than ever. They are becoming available anywhere, anytime. Current advances in such enabling technologies let foresee novel applications and services for improving the life of elderly and disabled people in their home and outside. These conference proceedings present the latest approaches and technical solutions in the area of smart homes, health telematics, and enabling technologies. The first chapter delves into the user perspective to ascertain real needs and design truly useful services. The following chapter explores the enabling technology. Distributed sensors, smart devices and networks appear as the nuts and bolts compulsory to build up smart homes. Chapter three looks at the realization of smart homes. Pervasive computing is emerging as one of the key approaches to organize computations within smart homes. The fourth chapter addresses the issue of using smart home features to design and deliver smart care services to persons with disabilities and elderly people. Finally Chapter five outlines standardization efforts and practical and industrial experiences. ICOST aims at creating an active research community dedicated to explore how smart homes in particular and health telematics in general can foster independent living and an enhanced life style for elderly and disabled people. On the one hand, smart homes are augmented environments with embedded computers, information appliances and multi-modal sensors allowing people to perform tasks efficiently by offering unprecedented levels of access to information and assistance from computer. On the other hand, health telematics makes the most of networks and telecommunications to propose health services, expertise and information at distance.

Smart Sensors and Sensing Technology Peter Lang

Technical insights on service, repair, maintenance and procedures compiled from over 45 years of The Star, the magazine of the Mercedes-Benz Club of America. Since 1956, informed Mercedes-Benz owners have relied upon The Star, the magazine of the Mercedes-Benz Club of America, for advice about maintenance, service and repair of their cars. Bentley

Publishers has collected some of the best of these do-it-yourself articles and tech tips into the Mercedes-Benz Technical Companion. No matter which Mercedes-Benz model you drive or desire, this compilation will serve as a valuable technical reference to help you understand and care for your Mercedes-Benz. This insightful and informed technical compilation has something for the Mercedes-Benz owner, service professional and enthusiast. You will also find useful technical guidance that pertains to Mercedes-Benz vehicles in general, based on the contributors' long-time dedication to Mercedes-Benz service and ownership.

Optimizing and Measuring Smart Grid Operation and Control Springer

This book constitutes the refereed proceedings of the 5th International Conference on Global Perspectives on Design Science Research, DERIST 2010, held in St. Gallen, Switzerland, in June 2010. The 35 revised full papers presented together with 10 revised short papers were carefully reviewed and selected from 80 submissions. The papers are organized in topical sections on organising design research, reflecting design science research, design research techniques, design and context, design and organisation, design and information, design research exemplars, design and behaviour, designing collaboration, as well as design and requirements engineering.

Power System Protection in Smart Grid Environment IGI Global

The 13 edition of the International Conference on Reliable Software Technologies (Ada-Europe 2008) marked its arrival in Italy by selecting the splendid venue of Venice. It did so after having been hosted twice in Switzerland, Spain and the UK (Montreux for its inauguration in 1996 and Geneva in 2007; Santander in 1999 and Palma de Mallorca in 2004; London in 1997 and York in 2005), and having visited Sweden (Uppsala, 1998), Germany (Potsdam, 2000), Belgium (Leuven, 2001), Austria (Vienna, 2002), France (Toulouse, 2003) and Portugal (Porto, 2006). It was certainly high time that the conference came to Italy! The conference series, which is run and sponsored by Ada-Europe, chooses its yearly venue following two driving criteria: to celebrate the activity of one of its national member societies in a particular country, and/or to facilitate the formation, or the growth, of a national community around all aspects of reliable software technologies. The success of this year's conference, beside the richness of its technical and social program, will thus be measured by its lasting effects. We can only hope that the latter will be as good and vast as the former! Owing to the absence of a national society associated with Ada-Europe in Italy, the organization of the conference was technically sustained by selected members of the Board of Ada-Europe, its governing body, with some invaluable local support.

From Smart Homes to Smart Care Springer Science & Business Media

A smart camera is an integrated machine vision system which, in addition to image capture circuitry, includes a processor, which can extract information from images without need for an external processing unit, and interface devices used to make results available to other devices. This book provides content on smart cameras for an interdisciplinary audience of professionals and students in embedded systems, image processing, and camera technology. It serves as a self-contained, single-source reference for material otherwise found only in sources such as conference proceedings, journal articles, or product data sheets. Coverage includes the 50 year chronology of smart cameras, their technical evolution, the state-of-the art, and numerous applications, such as surveillance and monitoring, robotics, and transportation.

Smart Infrastructure and Applications IGI Global

This book aims to familiarize with the basics of the SEMS theory, including logical-probabilistic and logical-linguistic methods for their design and modeling, taking into account the incomplete certainty of the operating environment and the mental characteristics of the members of the human-machine systems collective. Smart electromechanical systems (SEMS) are used in cyber-physical systems (CPS). The main tasks in the field of theory and practice of CPS are to ensure the efficiency, reliability and

safety of operation in real time. SEMS have been widely used since 2000 in parallel robots or so-called parallel kinematic machines. They offer good opportunities in terms of precision, rigidity and the ability to handle heavy loads. SEMS are used in unmanned vehicles, astronomy, machine tools, medicine and other fields. Currently, much attention is paid to the methods of designing and modeling SEMS based on the principles of adaptability, intelligence, biomorphism of parallel kinematics and parallelism in information processing and control calculations. The book consists of four parts: - Mechanisms and control systems; - The central nervous system; - Group control; - Examples of using SEMS modules. The book is recommended for specialists in the field of control, as well as a textbook for masters of universities specializing in the field of smart electromechanical systems and robotics and includes many scientific fields such as kinematics, dynamics and control theory.

Journal of Rehabilitation Research & Development Springer Nature
This book covers issues associated with smart systems due to the presence of onboard nonlinear components. It discusses the advanced architecture of smart systems for power management units. It explores issues of power management and identifies hazardous signals in the power management units of smart devices. It Presents adaptive artificial intelligence and machine learning-based control strategies. Discusses advanced simulations and data synthesis for various power management issues. Showcases solutions to the uncertainty and reliability issues in power management units. Identifies new power quality challenges in smart devices. Explains hybrid active power filters, shunt hybrid active power filters, and the industrial internet of things in power quality management. This book comprehensively discusses advancements of traditional electrical grids, the benefits of smart grids to customers and stakeholders, properties of smart grids, smart grid architecture, smart grid communication, and smart grid security. It further covers the architecture of advance power management units (PMU) of smart devices, and the identification of harmonic distortions with respect to various sensor-based technology. It will serve as an ideal reference text for senior undergraduate and graduate students, and academic researchers in fields including electrical engineering, electronics, communications engineering, and computer engineering.