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Optimizing and Measuring Smart Grid Operation and Control

Woodhead Publishing

Although usually well-funded, systems development projects are often late to market and over budget. Worse still, many are obsolete before they can be deployed or the program is cancelled before delivery. Clearly, it is time for a new approach. With coverage ranging from the complex characteristics and behaviors of enterprises to the challenges the

Power System Protection in Smart Grid Environment Springer

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 Tourism as a Driver for Culture and Sustainability CRC Press

The LNCS series reports state-of-the-art results in computer science research, development, and education, at a high level and in both printed and electronic form. Enjoying tight cooperation with the R&D community, with numerous individuals, as well as with prestigious organizations and societies, LNCS has grown into the most comprehensive computer science research forum available. The scope of LNCS,

including its subseries LNAI and LNBI, spans the whole range of computer science and information technology including interdisciplinary topics in a variety of application fields. The type of material published traditionally includes -proceedings (published in time for the respective conference) -post-proceedings (consisting of thoroughly revised final full papers) -research monographs (which may be based on outstanding PhD work, research projects, technical reports, etc.) More recently, several color-cover sublines have been added featuring, beyond a collection of papers, various added-value components; these sublines include -tutorials (textbook-like monographs or collections of lectures given at advanced courses) -state-of-the-art surveys

(offering complete and mediated coverage of a range of media and cultural sites and topic) -hot topics (introducing emergent topics to the broader community)

Smart Living Springer

What do the Fab Five from Queer Eye for the Straight Guy, the Supernanny and celebrity chef Jamie Oliver all have in common? Lifestyle gurus are increasingly intruding on everyday life, directing ordinary people to see themselves as «projects» that can be «made over» through embracing an ethos of relentless self-improvement. Smart Living argues that they represent a new form of popular expertise sweeping the world. Written in a lively and accessible manner, the book examines this cult of expertise across a

range of media and cultural sites and offers the reader a range of critical tools for understanding the recent emergence of this popular international phenomenon. Smart Living is a must-read for anyone interested in the relationship between popular media culture and contemporary social life.

Advances in Smart Vehicular Technology, Transportation, Communication and Applications IGI Global

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.

Smart Cameras Springer

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communication technology (ICT) and the recent accomplishments within both the e-learning paradigm and e-learning systems"--Provided by publisher. Reliable Software Technologies - Ada-Europe 2008 IGI Global 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.

True Visions CRC Press
Ongoing advancements in modern

technology have led to significant developments with smart technologies. With the numerous applications available, it becomes imperative to conduct research and make further progress in this field. Smart Technologies: Breakthroughs in Research and Practice provides comprehensive and interdisciplinary research on the most emerging areas of information science and technology. Including innovative studies on image and speech recognition, human-computer interface, and wireless technologies, this multi-volume book is an ideal source for researchers, academicians, practitioners, and students interested in advanced technological applications and developments.

Structural Health Monitoring 2006

Springer

This book introduces new smart connection systems which can be used in aseismic building design in order to control inter-story drifts and to reduce residual displacements. They are also utilized as damper devices and base isolators. The application of these systems to composite moment frame buildings will also be treated in the book. In addition,

Innovations in Smart Cities Applications
Edition 2 Springer

The goal of this book is to crystallize the emerging mobile computing technologies and trends into positive efforts to focus on the most promising solutions in services computing. Many toys built today are increasingly using these technologies

together and it is important to understand the various research and practical issues. The book will provide clear proof that mobile technologies are playing an ever increasing important and critical role in supporting toy computing, which is a new research discipline in computer science. It is also expected that the book will further research new best practices and directions in toy computing. The goal of this book is to bring together academics and practitioners to describe the use and synergy between the above-mentioned technologies. This book is mainly intended for researchers and students working in computer science and engineering, and for toy industry technology providers, having particular interests in mobile services. The wide range of authors

of this book will help the various communities understand both specific and common problems. This book facilitates software developers and researchers to become more aware of this challenging research opportunity. As well, the book is soliciting shall provide valuable strategic outlook on the emerging toy industry.

Computing in Smart Toys IGI Global

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.

SMART - IWRM - Sustainable Management of Available Water Resources with Innovative Technologies - Integrated Water Resources Management in the Lower Jordan Rift Valley : Final Report Phase II Springer Science & Business Media

Smart Textile Coatings and Laminates,

Second Edition, reviews a variety of topics regarding textile coatings and laminates to provide a stimulus for developing new and improved textile products. It addresses coating and laminating processes and techniques and base fabrics and their interaction in coated fabrics. Other sections discuss the different types of smart and intelligent coatings and laminates, including microencapsulation technology, conductive coatings, breathable coatings, phase change materials and their applications in textiles. Many new chapters have been added in this updated edition, including the medical applications of smart coatings, responsive coatings, and the integration of electronics into textiles. With its highly distinguished editor and array of international

contributors, this book is a valuable reference for chemists, textile technologists, fiber scientists, textile engineers, and more. Presents the state-of-the-art in smart coatings for fibers, fabrics and polymers, providing fundamental knowledge and stimulus for further research and development Includes a new range of application areas, including responsive coatings, smart coatings for medical applications, and the integration of electronics into textiles through coating technology Provides practical guidance for coating and laminating processes and techniques, with a particular focus on the impact of nanotechnology on intelligent coatings
Global Perspectives on Design Science Research

Peter Lang

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.

Smart Approaches to Predict Urban Flooding: Current Advances and Challenges Corwin Press

The 13th 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.

Smart Textile Coatings and Laminates Springer

Science & Business Media

We are currently witnessing the launch and development of many new learning management system (LMS) innovations whose main objective is to meet society ' s requirements and the knowledge economy, which is fully emerging. Understanding new LMS innovations is essential for the improvement of the training and learning processes. To effectively implement these new LMSs in the classroom, teachers and trainers need access to real-life cases in which these methods were successfully used. New smart LMSs should be easy to use and to administer online educational content to ensure better adaptation to course teaching and learning styles. Therefore, it is necessary to find a method of modeling for all types of LMS. By combining learning theories that have long inspired the design of computer applications and putting them into perspective with emerging education features, a new smart LMS can be developed and studied. Modeling and Prototyping

New Smart Learning Management Systems is a critical scholarly resource that examines current advances in educational innovation and presents cases that allow for the improvement of personalized and active learning. It examines diverse issues of social, organizational, economic, cultural, and technological context related to internal and external management of learning and teaching and their technological improvements. The chapters cover issues, methods, models, constructs, solution applications, or specific architectures and theories in LMS and feature a wide range of topics such as higher education, teacher education, and learning strategies. This book is ideal for graduate-level students, researchers and industry practitioners, engineers, research scientists/academicians, educational administrators, educational professionals, teachers and professors, and researchers involved in practical applications of engineering-pedagogical and didactic aspects in learning management systems.

Secure Smart Embedded Devices, Platforms and Applications Frontiers Media SA

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.

From Seatwork to Feetwork 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.

Design, User Experience, and Usability. User Experience in Advanced Technological Environments Springer

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.