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Advances in Smart Vehicular Technology, Transportation, Communication and Applications CRC Press

The utilization of sensors, communications, and computer technologies to create greater efficiency in the generation, transmission, distribution, and consumption of electricity will enable better management of the electric power system. As the use of smart grid technologies grows, utilities will be able to automate meter reading and billing and consumers will be more aware of their energy usage and the associated costs. The results will require utilities and their suppliers to develop new business models, strategies, and processes. With an emphasis on reducing costs and improving return on investment (ROI) for utilities, Smart Grids: Clouds, Communications, Open Source, and

Automation explores the design and implementation of smart grid technologies, considering the benefits to consumers as well as businesses. Focusing on industrial applications, the text: Provides a state-of-the-art account of the smart grid Explains how smart grid technologies are currently being used Includes detailed examples and test cases for real-life implementation Discusses trade-offs associated with the utilization of smart grid technologies Describes smart grid simulation software and offers insight into the future of the smart grid The electric power grid is in the early stages of a sea of change. Nobody knows which business models will survive, but companies heeding the lessons found in Smart Grids: Clouds, Communications, Open Source, and Automation might just increase their chances for success.

Smart Product Engineering CRC Press Assistive technologies for the old and people with disabilities is now a very active field of research. It also constitutes a very profitable market (expected to reach US \$60 billion p.a. by 2018). The book covers key aspects of this important field and provides guidelines for developing

assistive technologies in smart environments. The book also presents the new paradigm of open innovation used by the most prolific research teams around the world. The latest developments in the field are given. Overall this book will be a reference for researchers, practitioners and engineers.

Smart Technologies for Precision Assembly
Bentley Publishers

The book includes the research papers presented in the final conference of the EU funded SARISTU (Smart Intelligent Aircraft Structures) project, held at Moscow, Russia between 19-21 of May 2015. The SARISTU project, which was launched in September 2011, developed and tested a variety of individual applications as well as their combinations. With a strong focus on actual physical integration and subsequent material and structural testing, SARISTU has been responsible for important progress on the route to industrialization of structure integrated functionalities such as Conformal Morphing, Structural Health Monitoring and Nanocomposites. The gap- and edge-free deformation of aerodynamic surfaces known as conformal morphing has gained previously unrealized capabilities such as inherent de-icing, erosion protection and lightning strike protection, while at the same time the technological risk has been greatly reduced. Individual structural health monitoring techniques can now be applied at the part-manufacturing level rather than via extending an aircraft 's time in the final assembly line. And nanocomposites no longer lose their improved properties when trying to upscale from neat resin testing to full laminate testing at element level. As such, this book familiarizes the reader with the most significant developments, achievements and key technological steps which have been

made possible through the four-year long cooperation of 64 leading entities from 16 different countries with the financial support of the European Commission.

Computing in Smart Toys

Island Press

"This reference offers a wide-ranging selection of key research in a complex field of study, discussing topics ranging from using machine learning to improve the effectiveness of agents and multi-agent systems to developing machine learning software for high frequency trading in financial markets"--Provided by publishe

Runner's World Train Smart, Run Forever

Springer

Handbook of Software Fault Localization A comprehensive analysis of fault localization techniques and strategies In Handbook of Software Fault Localization: Foundations and Advances, distinguished computer scientists Prof. W. Eric Wong and Prof. T.H. Tse deliver a robust treatment of up-to-date techniques, tools, and essential issues in software fault localization. The authors offer collective discussions of fault localization strategies with an emphasis on the most important features of each approach. The book also explores critical aspects of software fault localization, like multiple bugs, successful and failed test cases, coincidental correctness, faults introduced by missing code, the combination of several fault localization techniques, ties within fault localization rankings, concurrency bugs, spreadsheet fault localization, and theoretical studies on fault localization. Readers will benefit from the authors ' straightforward discussions of how to apply cost-effective techniques to a variety of specific environments common in the real world. They will also enjoy the in-depth explorations of recent research directions on this topic. Handbook of Software Fault Localization also includes: A

thorough introduction to the concepts of software testing and debugging, their importance, typical challenges, and the consequences of poor efforts Comprehensive explorations of traditional fault localization techniques, including program logging, assertions, and breakpoints Practical discussions of slicing-based, program spectrum-based, and statistics-based techniques In-depth examinations of machine learning-, data mining-, and model-based techniques for software fault localization Perfect for researchers, professors, and students studying and working in the field, Handbook of Software Fault Localization: Foundations and Advances is also an indispensable resource for software engineers, managers, and software project decision makers responsible for schedule and budget control.

Smart Rotor Modeling Springer

This book provides a comprehensive overview and in-depth discussion of smart grid resilience. It covers the three most critical resilience problems facing smart grids—resilience against extreme weather, resilience against cyber-physical attacks, and resilience under system inter-dependency. Each of these topics increases the risk of large-scale system-wide cascading failures. In-depth chapters allow the reader to define and quantify the smart grid's ability to deal with extreme events and the critical infrastructures systems that connect it. Methods for improving system design are introduced along with effective strategies for protecting the system with minimal disruption of power supply and economic and social losses in extreme conditions. Smart Grid Resilience: Extreme Weather, Cyber-Physical Security, and System Interdependency is an essential guide for a broad audience of practicing professionals, including policymakers, electric utility engineers, and transmission and distribution system operators. It will also be a valuable reference for students and researchers. Smart and Intelligent Systems CRC Press

Vibration presents a major challenge to advanced experiments and technological processes in engineering, physics and life sciences that rely on optics and optoelectronics. This compendium discusses ways in which vibration may affect optical

performance and describes methods and means of reducing this impact. Principal methods of vibration control, namely, damping and isolation are highlighted using mathematical models and real-life examples. The unique text covers some topics that are important for optomechanical applications but are lacking in general vibration texts, such as dynamics and stability of elastically supported systems with high centers of gravity, physics of pneumatic isolators, and application of dynamic absorbers to vibration-isolated systems. This useful reference book enables the reader to apply the vibration control tools properly and perform basic analytical and experimental tasks of estimating and verifying their performance. It is also a must-have textbook for undergraduate or graduate-level courses in vibration control and optomechanics. Related Link(s)

List of Classes of United States Government Publications Available for Selection by Depository Libraries Rodale Books

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.

Smart Cameras IOS Press
Published annually since 1985, the Handbook series provides a compendium of thorough and integrative literature reviews on a diverse array of topics of interest to the higher education scholarly and policy communities. Each chapter provides a comprehensive review of research findings on a selected topic, critiques the research literature in terms of its conceptual and methodological rigor, and sets forth an agenda for future research intended to advance knowledge on the chosen topic. The Handbook focuses on twelve general areas that encompass the salient dimensions of scholarly and policy inquiries undertaken in the international higher education community. The series is fortunate to have attracted annual contributions from distinguished scholars throughout the world.

Smart Connection Systems Springer Science & Business Media

A smart rotor is a wind turbine rotor that, through a combination of sensors, control units and actuators actively reduces the variation of the aerodynamic loads it has to withstand. Smart rotors feature promising load alleviation potential and might provide the technological breakthrough required by the next generation of large wind turbine rotors. The book presents the aero-servo-elastic model of a smart rotor with Adaptive Trailing Edge Flaps for active load alleviation and provides an insight on the rotor aerodynamic, structural and control modeling. A novel model for the unsteady

aerodynamics of an air foil section with flap is presented and coupled with a multi-body structural representation. A smart rotor configuration is proposed, where the Adaptive Trailing Edge Flaps extend along the outer 20 % of the blade span. Linear Quadratic and Model Predictive algorithms are formulated to control the flap deflection. The potential of the smart rotor is finally confirmed by simulations in a turbulent wind field. A significant reduction of the fatigue loads on the blades is reported: the flaps, which cover no more than 1.5 % of the blade surface, reduce the fatigue load by 15 %; a combination of flap and individual pitch control allows for fatigue reductions up to 30 %.

Smart Intelligent Aircraft Structures (SARISTU)
Frontiers Media SA

This book constitutes the refereed proceedings of the 10th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networking, NEW2AN 2010, held in conjunction with the Third Conference on Smart Spaces, ruSMART 2009 in St. Petersburg, Russia, in August 2010. The 27 revised NEW2AN full papers are organized in topical sections on performance evaluation; performance modeling; delay-/disruption-tolerant networking and overlay systems; integrated wireless networks; resource management; and multimedia communications. The 14 revised ruSMART full papers are about smart spaces use cases; smart-M3 platform; and smart spaces solutions.

Community Planning Springer

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.

Vibration Control For Optomechanical Systems IGI Global

This book explores sustainability and innovation in manufacturing, encompassing three distinct parts. The first section delves into Sustainability in Manufacturing, where it analyzes topics like intelligent manufacturing, Industry 4.0 challenges, structural equation modeling for social sustainability, barriers to intelligent manufacturing systems, and critical success factors in Six Sigma deployment. The second part of the book, comprising Chapters 6-11, focuses on Ergonomics and Safety in manufacturing, examining cases related to health issues caused by factors like noise, high-temperature working conditions, ergonomic posture, and design attributes for ergonomic products. Lastly, Part III, consisting of Chapters 12-14, explores computational techniques applied in manufacturing, addressing issues such as vegetable waste in India, technology transfer models for university-industry collaboration, and the application of System Dynamics in safety management systems. Together, these chapters provide a comprehensive overview of sustainability, ergonomics, safety, and computational techniques in the manufacturing industry.

Smart Textile Coatings and Laminates
Springer Science & Business Media

The present book highlights studies that show how smart cities promote urban economic development. The book surveys the state of the art of Smart City Economic Development through a literature survey. The book uses 13 in depth city research case studies in 10 countries such as the North America, Europe, Africa and Asia to explain how a smart economy changes the urban spatial system and vice versa. This book focuses on exploratory city studies in different countries, which investigate how urban spatial systems adapt to the specific needs of smart urban economy.

The theory of smart city economic development is not yet entirely understood and applied in metropolitan regional plans. Smart urban economies are largely the result of the influence of ICT applications on all aspects of urban economy, which in turn changes the land-use system. It points out that the dynamics of smart city GDP creation takes ‘ different paths, ’ which need further empirical study, hypothesis testing and mathematical modelling. Although there are hypotheses on how smart cities generate wealth and social benefits for nations, there are no significant empirical studies available on how they generate urban economic development through urban spatial adaptation. This book with 13 cities research studies is one attempt to fill in the gap in knowledge base. Smart Solutions in Today ’ s Transport
Springer Nature

This book constitutes the thoroughly refereed post-conference proceedings of the 15th International Conference on Smart Card Research and Advanced Applications, CARDIS 2016, held in Cannes, France, in November 2016. The 15 revised full papers presented in this book were carefully reviewed and selected from 29 submissions. The focus of the conference was on all aspects of the design, development, deployment, validation, and application of smart cards or smart personal devices. Learning with Mobile Technologies, Handheld Devices, and Smart Phones: Innovative Methods
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.

Smart Technologies in Healthcare Peter Lang
This book gathers a selection of peer-reviewed papers presented at the second Big Data Analytics for Cyber-Physical System in Smart City (BDCPS 2020) conference, held in Shanghai, China, on 28 – 29 December 2020. The contributions, prepared by an international team of scientists and engineers, cover the latest advances made in the field of machine learning, and big data analytics methods and approaches for the data-driven co-design of communication, computing, and control for smart cities. Given its scope, it offers a valuable resource for all researchers and professionals interested in big data, smart cities, and cyber-physical systems.

Mercedes-Benz Technical Companion

Springer Science & Business Media

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.

From Smart Homes to Smart Care Woodhead Publishing

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 Foods for ADHD and Brain Health Springer Nature

Nowadays networks, microprocessors, memory chips, smart sensors and actuators are faster, cheaper and smaller than ever.

They are becoming available anywhere, distance.
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