

Intelligent Home Solutions

Intelligent Buildings and Building Automation Korea Now Gerontechnology Instrumentation, Measurement, Circuits and Systems Intelligent Vehicular Networks and Communications Home in the City Shale Analytics New Mega Trends IHM-HCI 2001 Customer Oriented Product Design Intelligent Data Analysis for Biomedical Applications Home-Oriented Informatics and Telematics Hong Kong Industrialist Social Solutions The Intelligent Enterprise in the Era of Big Data Human-Computer Interaction. Ambient, Ubiquitous and Intelligent Interaction Building Intelligent Information Systems Software Cooperative Buildings. Integrating Information, Organizations, and Architecture Human Behavior Recognition Technologies: Intelligent Applications for Monitoring and Security Development Challenges, South-South Solutions: November 2012 Issue Internet of Things in Biomedical Engineering Foundations of Intelligent Systems Intelligent Data Security Solutions for e-Health Applications Intelligent Components and Instruments for Control Applications 2003 (SICICA 2003) Intelligent Internet of Things Intelligent Computing Systems Smart Homes Intelligent Marketing Lean All Intelligent Broadband Multimedia Networks Statoil Magazine Intelligent Integrated Systems Intelligent Cities Home Networks Monthly Newsletter Building the e-World Ecosystem 150 Best Tiny Home Ideas Internet of Things A to Z User Modeling 2005 Multimedia Big Data Computing for IoT Applications Smart Design

Intelligent Buildings and Building Automation

This book at hand explores emerging scientific and technological areas in which Intelligent Computing Systems provide efficient solutions and, thus, may play a role in the years to come. It demonstrates how Intelligent Computing Systems make use of computational methodologies that mimic nature-inspired processes to address real world problems of high complexity for which exact mathematical solutions, based on physical and statistical modelling, are intractable. Common intelligent computational methodologies are presented including artificial neural networks, evolutionary computation, genetic algorithms, artificial immune systems, fuzzy logic, swarm intelligence, artificial life, virtual worlds and hybrid methodologies based on combinations of the previous. The book will be useful to researchers, practitioners and graduate students dealing with mathematically-intractable problems. It is intended for both the expert/researcher in the field of Intelligent Computing Systems, as well as for the general reader in the fields of Artificial and Computational Intelligence who wishes to learn more about the field of Intelligent Computing Systems and its applications. An extensive list of bibliographic references at the end of each chapter guides the reader to probe further into application area of interest to him/her.

Korea Now

This volume constitutes the proceedings of the “Second International Workshop on Cooperative Buildings (CoBuild’99) – Integrating Information, Organizations, and Architecture” held at the Carnegie Museum of Art in Pittsburgh on October 1-2, 1999. The success of the First International Workshop on Cooperative Buildings (CoBuild’98), held at GMD in Darmstadt in February 1998, showed that there is a demand for an appropriate forum to present research about the intersection of information technology, organizational innovation, and architecture. Thus, it was decided to organize a follow-up event. The decision of where to organize CoBuild’99 was straight forward. Since we had many high quality contributions from the United States (U. S.) presented at CoBuild’98, we wanted to hold the second workshop in the U. S. reaching out to a large audience and at the same time turning it into an international series of events held in different places in the world. Due to the excellent work carried out at Carnegie Mellon University, it was an obvious choice to ask Volker Hartkopf from the Department of Architecture and Jane Siegel from the Human Computer Interaction Institute to be conference cochairs for CoBuild’99. The workshop is organized in cooperation with the German National Research Center for Information Technology (GMD), in particular the Integrated Publication and Information Systems Institute (IPSI) in Darmstadt providing continuity between the events.

Gerontechnology

YOUR GUIDE TO A FULFILLING BUSINESS AND PERSONAL FUTURE Based on research by one of the world's largest growth-consulting companies, New Mega Trends identifies the ten most important global trends that will define our future, including business models, smart technology, connectivity and convergence and radical social trends. New Mega Trends will give you the tools to not only identify and evaluate these game-changing trends, but also help you to translate them into market opportunities for your everyday business and personal life. How will we travel to work in the cities of the future? Will Zero be the new big thing? How will we stay connected in the Mega Trends World? Will our Wellness and Well-Being top business agenda? If you are a leader with a corporate vision, or a strategic planner within your organization, or just plain curious about your future, New Mega Trends will provide you with stimulating stories, startling facts and thought-provoking case studies that will not only inform your future but entertain you today.

Instrumentation, Measurement, Circuits and Systems

Giving you a combination of general principles, applied practice and information on the state-of-the-art, this book will give you the information you need to incorporate the latest systems and technologies into your building projects. It focuses on a number of important issues, such as: Network communication protocols and standards, including the application of the internet. The integration and interfacing of building automation subsystems and multiple building systems. Local and supervisory control strategies for typical building services systems. The automation system configuration and technologies

for air-conditioning control, lighting system control, security and access control, and fire safety control. Whether you're a project manager or engineer planning the systems set-up for a high value building, or a building engineering or management student looking for a practical guide to automation and intelligent systems, this book provides a valuable introduction and overview.

Intelligent Vehicular Networks and Communications

“ ... the enterprise of today has changed ... wherever you sit in this new corporation ... Srinivasan gives us a practical and provocative guide for rethinking our business process ... calling us all to action around rapid development of our old, hierarchical structures into flexible customer centric competitive force A must read for today's business leader.” Mark Nunnally, Executive Director, MassIT, Commonwealth of Massachusetts and Managing Director, Bain Capital “‘Efficiency,’ ‘agile,’ and ‘analytics’ used to be the rage. Venkat Srinivasan explains in this provocative book why organizations can no longer afford to stop there. They need to move beyond - to be ‘intelligent.’ It isn't just theory. He's done it.” Bharat Anand, Henry R. Byers Professor of Business Administration, Harvard Business School In the era of big data and automation, the book presents a cutting-edge approach to how enterprises should organize and function. Striking a practical balance between theory and practice, *The Intelligent Enterprise in the Era of Big Data* presents the enterprise architecture that identifies the power of the emerging technology environment. Beginning with an introduction to the key challenges that enterprises face, the book systematically outlines modern enterprise architecture through a detailed discussion of the inseparable elements of such architecture: efficiency, flexibility, and intelligence. This architecture enables rapid responses to market needs by sensing important developments in internal and external environments in real time. Illustrating all of these elements in an integrated fashion, *The Intelligent Enterprise in the Era of Big Data* also features:

- A detailed discussion on issues of time-to-market and flexibility with respect to enterprise application technology
- Novel analyses illustrated through extensive real-world case studies to help readers better understand the applicability of the architecture and concepts
- Various applications of natural language processing to real-world business transactions
- Practical approaches for designing and building intelligent enterprises

The Intelligent Enterprise in the Era of Big Data is an appropriate reference for business executives, information technology professionals, data scientists, and management consultants. The book is also an excellent supplementary textbook for upper-undergraduate and graduate-level courses in business intelligence, data mining, big data, and business process automation. “a compelling vision of the next generation of organization—the intelligent enterprise—which will leverage not just big data but also unstructured text and artificial intelligence to optimize internal processes in real time ... a must-read book for CEOs and CTOs in all industries.” Ravi Ramamurti, D'Amore-McKim Distinguished Professor of International Business and Strategy, and Director, Center for Emerging Markets, Northeastern University “It is about the brave new world that narrows the gap between technology and business The book has practical advice from a thoughtful practitioner. Intelligent automation will be a competitive

strength in the future. Will your company be ready?" Victor J. Menezes, Retired Senior Vice Chairman, Citigroup Venkat Srinivasan, PhD, is Chairman and Chief Executive Officer of RAGE Frameworks, Inc., which supports the creation of intelligent business process automation solutions and cognitive intelligence solutions for global corporations. He is an entrepreneur and holds several patents in the area of knowledge-based technology architectures. He is the author of two edited volumes and over 30 peer-reviewed publications. He has served as an associate professor in the College of Business Administration at Northeastern University.

Home in the City

This book constitutes the thoroughly refereed post-conference proceedings of the 11th IFIP WG 6.11 Conference on e-Business, e-Services and e-Society, I3E 2011, held in Kaunas, Lithuania, in October 2011. The 25 revised papers presented were carefully reviewed and selected from numerous submissions. They are organized in the following topical sections: e-government and e-governance, e-services, digital goods and products, e-business process modeling and re-engineering, innovative e-business models and implementation, e-health and e-education, and innovative e-business models.

Shale Analytics

Intelligent Data Analysis for Biomedical Applications: Challenges and Solutions presents specialized statistical, pattern recognition, machine learning, data abstraction and visualization tools for the analysis of data and discovery of mechanisms that create data. It provides computational methods and tools for intelligent data analysis, with an emphasis on problem-solving relating to automated data collection, such as computer-based patient records, data warehousing tools, intelligent alarming, effective and efficient monitoring, and more. This book provides useful references for educational institutions, industry professionals, researchers, scientists, engineers and practitioners interested in intelligent data analysis, knowledge discovery, and decision support in databases. Provides the methods and tools necessary for intelligent data analysis and gives solutions to problems resulting from automated data collection Contains an analysis of medical databases to provide diagnostic expert systems Addresses the integration of intelligent data analysis techniques within biomedical information systems

New Mega Trends

A Proceedings volume from the IFAC Symposium on Intelligent Components and Instruments for Control Applications, Portugal, 2003. Provides an overview of the theory and applications and presents an exchange of experiences on recent advances in this field.

IHM-HCI 2001

A comprehensive overview of the Internet of Things' core concepts, technologies, and applications Internet of Things A to Z offers a holistic approach to the Internet of Things (IoT) model. The Internet of Things refers to uniquely identifiable objects and their virtual representations in an Internet-like structure. Recently, there has been a rapid growth in research on IoT communications and networks, that confirms the scalability and broad reach of the core concepts. With contributions from a panel of international experts, the text offers insight into the ideas, technologies, and applications of this subject. The authors discuss recent developments in the field and the most current and emerging trends in IoT. In addition, the text is filled with examples of innovative applications and real-world case studies. Internet of Things A to Z fills the need for an up-to-date volume on the topic. This important book: Covers in great detail the core concepts, enabling technologies, and implications of the Internet of Things Addresses the business, social, and legal aspects of the Internet of Things Explores the critical topic of security and privacy challenges for both individuals and organizations Includes a discussion of advanced topics such as the need for standards and interoperability Contains contributions from an international group of experts in academia, industry, and research Written for ICT researchers, industry professionals, and lifetime IT learners as well as academics and students, Internet of Things A to Z provides a much-needed and comprehensive resource to this burgeoning field.

Customer Oriented Product Design

E-health applications such as tele-medicine, tele-radiology, tele-ophthalmology, and tele-diagnosis are very promising and have immense potential to improve global healthcare. They can improve access, equity, and quality through the connection of healthcare facilities and healthcare professionals, diminishing geographical and physical barriers. One critical issue, however, is related to the security of data transmission and access to the technologies of medical information. Currently, medical-related identity theft costs billions of dollars each year and altered medical information can put a person's health at risk through misdiagnosis, delayed treatment or incorrect prescriptions. Yet, the use of hand-held devices for storing, accessing, and transmitting medical information is outpacing the privacy and security protections on those devices. Researchers are starting to develop some imperceptible marks to ensure the tamper-proofing, cost effective, and guaranteed originality of the medical records. However, the robustness, security and efficient image archiving and retrieval of medical data information against these cyberattacks is a challenging area for researchers in the field of e-health applications. Intelligent Data Security Solutions for e-Health Applications focuses on cutting-edge academic and industry-related research in this field, with particular emphasis on interdisciplinary approaches and novel techniques to provide security solutions for smart applications. The book provides an overview of cutting-edge security techniques and ideas to help graduate students, researchers, as well as IT professionals who want to understand the opportunities and challenges of

using emerging techniques and algorithms for designing and developing more secure systems and methods for e-health applications. Investigates new security and privacy requirements related to eHealth technologies and large sets of applications Reviews how the abundance of digital information on system behavior is now being captured, processed, and used to improve and strengthen security and privacy Provides an overview of innovative security techniques which are being developed to ensure the guaranteed authenticity of transmitted, shared or stored data/information

Intelligent Data Analysis for Biomedical Applications

The book addresses issues towards the design and development of Wireless Sensor Network based Smart Home and fusion of Real-Time Data for Wellness Determination of an elderly person living alone in a Smart Home. The fundamentals of selection of sensor, fusion of sensor data, system design, modelling, characterizations, experimental investigations and analyses have been covered. This book will be extremely useful for the engineers and researchers especially higher undergraduate, postgraduate students as well as practitioners working on the development of Wireless Sensor Networks, Internet of Things and Data Mining.

Home-Oriented Informatics and Telematics

Do you have specific tactics to survive this era of digital transformation? How can a firm extract powerful insights from responding to and implementing new-age technologies? Some companies adapt. Others miss the boat. Knowledge of what technology to employ, how to employ it, when and why it should be employed is a must in this era. Intelligent Marketing emphasizes organizing resources, developing capabilities and designing strategies for deploying new-age technologies to ensure a healthy financial outcome for all the key stakeholders, and a better quality of life for the society and community.

Hong Kong Industrialist

Intelligent Vehicular Network and Communications: Fundamentals, Architectures and Solutions begins with discussions on how the transportation system has transformed into today's Intelligent Transportation System (ITS). It explores the design goals, challenges, and frameworks for modeling an ITS network, discussing vehicular network model technologies, mobility management architectures, and routing mechanisms and protocols. It looks at the Internet of Vehicles, the vehicular cloud, and vehicular network security and privacy issues. The book investigates cooperative vehicular systems, a promising solution for addressing current and future traffic safety needs, also exploring cooperative cognitive intelligence, with special attention to spectral efficiency, spectral scarcity, and high mobility. In addition, users will find a thorough examination of experimental work in such areas as Controller Area Network protocol and working function of On Board Unit, as well as

working principles of roadside unit and other infrastructural nodes. Finally, the book examines big data in vehicular networks, exploring various business models, application scenarios, and real-time analytics, concluding with a look at autonomous vehicles. Proposes cooperative, cognitive, intelligent vehicular networks Examines how intelligent transportation systems make more efficient transportation in urban environments Outlines next generation vehicular networks technology

Social Solutions

Building Intelligent Information Systems Software shows scientists and engineers how to build applications that model complex information, data, and knowledge without the need for coding. Traditional software development takes time and leads to inflexible, complicated applications that almost, but don't exactly, meet the intended needs. Requirements can change, sometimes mid-development, and adapting existing systems can be difficult. Individual solutions can be incompatible, leading to information silos and inefficiency throughout an organization. This book offers a solution – the Information Unit Model, an innovative architecture for translating domain knowledge into applications. By encapsulating the complexities of computing, the Unit Model allows engineers to focus on business or experimental needs. Author Tom Feigenbaum, inventor of the Unit Modeler, demonstrates this innovative software architecture for rapid application design and development. His approach promotes repurposing pre-existing tools and libraries, and collaborating across the cloud, to promote information sharing and efficient development practices. Each concept is illustrated with examples including file management, data management, and 3D visualization. Turn your domain knowledge into applications without heavy coding Design and develop information systems applications in a fraction of the time of traditional methods Leverage previously-built components to jump start new projects Includes access to a trial version of the Information Unit Modeler tool for rapid application development

The Intelligent Enterprise in the Era of Big Data

Intelligent Broadband Multimedia Networks is a non-mathematical, but highly systems oriented, coverage of modern intelligent information networks. This volume focuses on the convergence of computers and communications technologies. Most of the concepts that are generic to all intelligent networks, and their microscopic and macroscopic functions, are presented. This book includes specific architectures that can be used by network designers and planners, telecommunications managers, computer scientists, and telecommunications professionals. The breadth of this coverage and the systems orientation of this work make the text suitable for use in advanced level courses on intelligent communications networks. The material in this volume ranges from defining intelligent networks to more specific coverage of educational, medical, and knowledge-based networks. Each of the 20 chapters address issues that can help make the

transition from computer design, to the underlying concepts of modern telecommunications systems, to considerations necessary for the implementation of intelligent network services. Special and timely coverage of emerging technologies, such as HDSL, ADSL, BISDN, wireless, broadband access, ATM, and other topics, are given expanded treatment. The authors have included design methodologies for installing intelligence into almost any communications systems, and procedures for using such intelligence according to the type of function expected from these networks. Unique features of the book are: a 64-page glossary of key terms (with expanded explanations) used in the field, a 23-page index that makes it easy to search for important information, running headers on each page to help the busy professional use the book as a reference/design tool, complete references including additional reading for more detailed information, and accurate and concise information to help telecommunications professionals understand the intricacies of the field.

Human-Computer Interaction. Ambient, Ubiquitous and Intelligent Interaction

The latest volume in the 150 Best series, 150 Best Tiny Home Ideas showcases a wide selection of urban and rural homes from around the world that exemplify tiny home living. Filled with detailed, full-color photographs, comprehensive layout illustrations, and informative descriptions, this useful guidebook responds to the space limitations of contemporary environments and highlights the newest innovations in efficient and successful small-space design. In recent years, tiny homes have not only become hugely popular because of their creative use of space but also necessary to deal with increasingly crowded living conditions. In this lush volume, you'll discover the most current and effective trends in tiny home design that work to enhance the comfort and practicality of the home without sacrificing the design. Featuring 150 homes designed by world-renowned architects and designers, 150 Best Tiny Home Ideas is the must-have resource for those interested in the construction and design of small-space living.

Building Intelligent Information Systems Software

The volume includes a set of selected papers extended and revised from the 2011 International Conference on Mechanical Engineering and Technology, held on London, UK, November 24-25, 2011. Mechanical engineering technology is the application of physical principles and current technological developments to the creation of useful machinery and operation design. Technologies such as solid models may be used as the basis for finite element analysis (FEA) and / or computational fluid dynamics (CFD) of the design. Through the application of computer-aided manufacturing (CAM), the models may also be used directly by software to create "instructions" for the manufacture of objects represented by the models, through computer numerically controlled (CNC) machining or other automated processes, without the need for intermediate drawings. This volume covers the subject areas of mechanical engineering and technology, and also covers interdisciplinary subject areas of computers, communications, control and automation. We hope that researchers, graduate students and

other interested readers benefit scientifically from the book and also find it stimulating in the process.

Cooperative Buildings. Integrating Information, Organizations, and Architecture

Good product designs merge materials, technology and hardware into a unified user experience; one where the technology recedes into the background and people benefit from the capabilities and experiences available. By focusing on functional gain, critical awareness and emotive connection, even the most multifaceted and complex technology can be made to feel straightforward and become an integral part of daily life. Researchers, designers and developers must understand how to progress or appropriate the right technical and human knowledge to inform their innovations. The 1st International Smart Design conference provides a timely forum and brings together researchers and practitioners to discuss issues, identify challenges and future directions, and share their R&D findings and experiences in the areas of design, materials and technology. This proceedings of the 1st Smart Design conference held at Nottingham Trent University in November 2011 includes summaries of the talks given on topics ranging from intelligent textiles design to pharmaceutical packaging to the impact of social and emotional factors on design choices with the aim of informing and inspiring future application and development of smart design.

Human Behavior Recognition Technologies: Intelligent Applications for Monitoring and Security

Home-Oriented Informatics and Telematics is an essential reference for both academic and professional researchers in the field of home informatics. The home is a key aspect of society and the widespread use of computers and other information appliances is transforming the way in which we live, work and communicate in the information age. This area of study has seen remarkable growth in the last few years as information technology has encroached into every corner of home and social spheres. The papers selected here cover a growing range of topics, including assistive technology; smart homes; home technology; memory aids; home activity; appliance design; design methodology; time, space and virtual presence; social and ethical aspects; and home activities. This state-of-the-art volume presents the proceedings of the Home-Oriented Informatics and Telematics conference held in York, U.K, April 13-15, 2005. This collection will be important not only for home informatics experts and researchers, but also for teachers, administrators, and anyone else seeking to keep up to date in this rapidly emerging field.

Development Challenges, South-South Solutions: November 2012 Issue

The 13th International Conference on Human-Computer Interaction, HCI International 2009, was held in San Diego,

California, USA, July 19–24, 2009, jointly with the Symposium on Human Interface (Japan) 2009, the 8th International Conference on Engineering Psychology and Cognitive Ergonomics, the 5th International Conference on Universal Access in Human-Computer Interaction, the Third International Conference on Virtual and Mixed Reality, the Third International Conference on Internationalization, Design and Global Development, the Third International Conference on Online Communities and Social Computing, the 5th International Conference on Augmented Cognition, the Second International Conference on Digital Human Modeling, and the First International Conference on Human Centered Design. A total of 4,348 individuals from academia, research institutes, industry and governmental agencies from 73 countries submitted contributions, and 1,397 papers that were judged to be of high scientific quality were included in the program. These papers address the latest research and development efforts and highlight the human aspects of the design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in the knowledge and effective use of computers in a variety of application areas.

Internet of Things in Biomedical Engineering

Foundations of Intelligent Systems

This book considers all aspects of managing the complexity of Multimedia Big Data Computing (MMBD) for IoT applications and develops a comprehensive taxonomy. It also discusses a process model that addresses a number of research challenges associated with MMBD, such as scalability, accessibility, reliability, heterogeneity, and Quality of Service (QoS) requirements, presenting case studies to demonstrate its application. Further, the book examines the layered architecture of MMBD computing and compares the life cycle of both big data and MMBD. Written by leading experts, it also includes numerous solved examples, technical descriptions, scenarios, procedures, and algorithms.

Intelligent Data Security Solutions for e-Health Applications

Recently, the ICT field has seen a shift from machine-centered focuses to human and user knowledge-based approaches. However, as priorities shift, questions arise on how to detect and monitor users' behavior. Human Behavior Recognition Technologies: Intelligent Applications for Monitoring and Security takes an insightful look into the applications and dependability of behavior detection. In addition, this comprehensive publication looks into the social, ethical, and legal implications of these areas. Researchers and practitioners interested in the computational aspects of behavior monitoring as well as the ethical and legal implications will find this reference source beneficial.

Intelligent Components and Instruments for Control Applications 2003 (SICICA 2003)

Intelligent Internet of Things

Development Challenges, South-South Solutions is the monthly e-newsletter of the United Nations Office for South-South Cooperation in UNDP (www.southerninnovator.org). It has been published every month since 2006. Its sister publication, Southern Innovator magazine, has been published since 2011.

Intelligent Computing Systems

This publication is concerned with gerontechnology - the study of technology and ageing with the aim of improving the functioning of older people in daily life. The first part of the book is a compilation of the key-note addresses describing the background for and the conditions under which the emerging field of gerontechnology can be developed further. The chapters deal with political, socio-economic, ethical, demographic issues related to gerontechnology. Furthermore, methodological approaches in human factors, ergonomics and industrial design are described. Trends in technological developments and innovations conclude the first volume. The second part presents some 80 case studies, divided over 9 sections (1) perception and cognition, (2) communication technology, (3) mobility and transport, (4) health and home care technology, (5) housing, (6) training and education, (7) safety and security, (8) product design and (9) culture and attitudes.

Smart Homes

Intelligent Marketing

The emergence of highly promising and potent technologies has enabled the transition of ordinary objects into smart artifacts-providing wider connectivity of digitized entities that can facilitate the building of connected cities. This book provides readers with a solid foundation on the latest technologies and tools required to develop and enhance

Lean AI

This book describes the application of modern information technology to reservoir modeling and well management in shale. While covering Shale Analytics, it focuses on reservoir modeling and production management of shale plays, since

conventional reservoir and production modeling techniques do not perform well in this environment. Topics covered include tools for analysis, predictive modeling and optimization of production from shale in the presence of massive multi-cluster, multi-stage hydraulic fractures. Given the fact that the physics of storage and fluid flow in shale are not well-understood and well-defined, Shale Analytics avoids making simplifying assumptions and concentrates on facts (Hard Data - Field Measurements) to reach conclusions. Also discussed are important insights into understanding completion practices and re-frac candidate selection and design. The flexibility and power of the technique is demonstrated in numerous real-world situations.

Intelligent Broadband Multimedia Networks

Statoil Magazine

The 33 revised full papers and 30 poster summaries presented together with papers of 12 selected doctoral consortium articles and the abstracts of 3 invited lectures were carefully reviewed and selected from 160 submissions. The book offers topical sections on adaptive hypermedia, affective computing, data mining for personalization and cross-recommendation, ITS and adaptive advice, modeling and recognizing human activity, multimodality and ubiquitous computing, recommender systems, student modeling, user modeling and interactive systems, and Web site navigation support.

Intelligent Integrated Systems

Intelligent Cities

During the past several decades, the Aboriginal population of Canada has become so urbanized that today, the majority of First Nations and Métis people live in cities. Home in the City provides an in-depth analysis of urban Aboriginal housing, living conditions, issues, and trends. Based on extensive research, including interviews with more than three thousand residents, it allows for the emergence of a new, contemporary, and more realistic portrait of Aboriginal people in Canada's urban centres. Home on the City focuses on Saskatoon, which has both one of the highest proportions of Aboriginal residents in the country and the highest percentage of Aboriginal people living below the poverty line. While the book details negative aspects of urban Aboriginal life (such as persistent poverty, health problems, and racism), it also highlights many positive developments: the emergence of an Aboriginal middle class, inner-city renewal, innovative collaboration with municipal and community organizations, and more. Alan B. Anderson and the volume's contributors provide an important

resource for understanding contemporary Aboriginal life in Canada.

Home Networks Monthly Newsletter

This book constitutes the refereed proceedings of the 15th International Symposium on Methodologies for Intelligent Systems, ISMIS 2005, held in Saratoga Springs, NY, USA in May 2005. The 69 revised full papers presented together with 2 invited papers were carefully reviewed and selected from close to 200 submissions. The papers are organized in topical sections on knowledge discovery and data mining, intelligent information systems, information and knowledge integration, soft computing, clustering, Web data processing, AI logics, applications, intelligent information retrieval, and knowledge representation.

Building the e-World Ecosystem

This book gives a state-of-the-art overview by internationally recognized researchers of the architectures of breakthrough devices required for future intelligent integrated systems. The first section highlights Advanced Silicon-Based CMOS Technologies. New device and functional architectures are reviewed in chapters on Tunneling Field-Effect Transistors and 3-D monolithic Integration, which the alternative materials could possibly use in the future. The way we can augment silicon technologies is illustrated by the co-integration of new types of devices, such as molecular and resistive spintronics-based memories and smart sensors, using nanoscale features co-integrated with silicon CMOS or above it.

150 Best Tiny Home Ideas

This holistic book is an invaluable reference for addressing various practical challenges in architecting and engineering Intelligent IoT and eHealth solutions for industry practitioners, academic and researchers, as well as for engineers involved in product development. The first part provides a comprehensive guide to fundamentals, applications, challenges, technical and economic benefits, and promises of the Internet of Things using examples of real-world applications. It also addresses all important aspects of designing and engineering cutting-edge IoT solutions using a cross-layer approach from device to fog, and cloud covering standards, protocols, design principles, reference architectures, as well as all the underlying technologies, pillars, and components such as embedded systems, network, cloud computing, data storage, data processing, big data analytics, machine learning, distributed ledger technologies, and security. In addition, it discusses the effects of Intelligent IoT, which are reflected in new business models and digital transformation. The second part provides an insightful guide to the design and deployment of IoT solutions for smart healthcare as one of the most important applications of IoT. Therefore, the second part targets smart healthcare-wearable sensors, body area sensors, advanced

pervasive healthcare systems, and big data analytics that are aimed at providing connected health interventions to individuals for healthier lifestyles.

Internet of Things A to Z

This book offers a comprehensive reference guide to customer-oriented product design and intelligence. It provides readers with the necessary intelligent tools for designing customer-oriented products in contexts characterized by incomplete information or insufficient data, where classical product design approaches cannot be applied. The respective chapters, written by prominent researchers, explain a wealth of both basic and advanced concepts including fuzzy QFD, fuzzy FMEA, the fuzzy Kano model, fuzzy axiomatic design, fuzzy heuristics-based design, conjoint analysis-based design, and many others. To foster reader comprehension, all chapters include relevant numerical examples or case studies. Taken together, they form an excellent reference guide for researchers, lecturers, and postgraduate students pursuing research on customer-oriented product design. Moreover, by extending all the main aspects of classical customer-oriented product design to its intelligent and fuzzy counterparts, the book presents a dynamic snapshot of the field that is expected to stimulate new directions, ideas, and developments.

User Modeling 2005

Multimedia Big Data Computing for IoT Applications

Internet of Things in Biomedical Engineering presents the most current research in Internet of Things (IoT) applications for clinical patient monitoring and treatment. The book takes a systems-level approach for both human-factors and the technical aspects of networking, databases and privacy. Sections delve into the latest advances and cutting-edge technologies, starting with an overview of the Internet of Things and biomedical engineering, as well as a focus on 'daily life.' Contributors from various experts then discuss 'computer assisted anthropology,' CLOUDFALL, and image guided surgery, as well as bio-informatics and data mining. This comprehensive coverage of the industry and technology is a perfect resource for students and researchers interested in the topic. Presents recent advances in IoT for biomedical engineering, covering biometrics, bioinformatics, artificial intelligence, computer vision and various network applications Discusses big data and data mining in healthcare and other IoT based biomedical data analysis Includes discussions on a variety of IoT applications and medical information systems Includes case studies and applications, as well as examples on how to automate data analysis with Perl R in IoT

Smart Design

How can startups successfully scale customer acquisition and revenue growth with a Lean team? Out-of-the-box acquisition solutions from Facebook, Google, and others provide a good start, but the companies that can tailor those solutions to meet their specific needs, objectives, and goals will come out winners. But that hasn't been an easy task—until now. With this practical book, author Lomit Patel shows you how to use AI and automation to provide an operational layer atop those acquisition solutions to deliver amazing results for your company. You'll learn how to adapt, customize, and personalize cross-channel user journeys to help your company attract and retain customers—to usher in the new age of Autonomous Marketing. Learn how AI and automation can support the customer acquisition efforts of a Lean Startup Dive into Customer Acquisition 3.0, an initiative for gaining and retaining customers Explore ways to use AI for marketing purposes Understand the key metrics for determining the growth of your startup Determine the right strategy to foster user acquisition in your company Manage the increased complexity and risk inherent in AI projects

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