

Smart Metering Idc

This book constitutes the refereed proceedings of the 10th International Symposium, PETS 2011, held in Waterloo, Canada, in July 2011. The 15 revised full papers were carefully reviewed and selected from 61 submissions. The papers address design and realization of privacy services for the Internet, other data systems and communication networks. Presenting novel research on all theoretical and practical aspects of privacy technologies, as

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well as experimental studies of fielded systems the volume also features novel technical contributions from other communities such as law, business, and data protection authorities, that present their perspectives on technological issues.

The 2010 edition of the OECD Information Technology Outlook analyses the economic crisis and recovery, and suggests that the outlook for IT goods and services industries is good after weathering a turbulent

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economic period better than during the crisis at the beginning of the 2000s.

With different intensities, depending on the season, every morning and evening of any weekday there are the same peaks in electricity demand. Peaks can bring about significantly negative environmental and economic impacts. Demand Side Response is a relatively recent solution in Europe which has the potential to reduce peak demand and ease impending capacity shortages. Peak Energy

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Demand and Demand Side Response presents evidence on a set of Demand Side Response activities, ranging from price-based to incentive-based programmes and policies. Examples are drawn from different programmes for both residential and non-residential sectors of electricity demand, including Time of Use tariffs, Critical Peak Pricing Automated Demand Controllers and Ancillary Services. The book also looks at the actual energy saving impacts of smart meters, the activities

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which constitute peak demand and the potential opportunities associated with European smart grids and Capacity Markets. This is the first book presenting comprehensive analysis of the impacts, cost benefits and risks associated with Demand Side Response programmes and policies. It should be of interest to students, scholars and policy-makers in the areas of energy, environmental economics and applied economics. This book constitutes the refereed proceedings of the Second International

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Conference on Intelligent, Secure, and Dependable Systems in Distributed and Cloud Environments, ISDDC 2018, held in Vancouver, BC, Canada, in November 2018. The 10 full papers were carefully reviewed and selected from 28 submissions. This book also contains the abstracts of two keynote talks and one tutorial. The contributions included in this proceedings cover many aspects of theory and application of effective and efficient paradigms, approaches, and tools for building, maintaining, and

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managing secure and dependable systems and infrastructures, such as botnet detection, secure cloud computing and cryptosystems, IoT security, sensor and social network security, behavioral systems and data science, and mobile computing.

Second International Conference, NCIS 2012, Shanghai, China, December 7-9, 2012, Proceedings
Data Capture and Analysis for Sustainable Water Management
17th International Conference, ICOST 2019,

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New York City, NY, USA,

October 14-16, 2019,

Proceedings

Smart City 360°

Disruptive Analytics

Privacy Enhancing

Technologies

Start-Up Creation

An Insightful Examination of Smart Water Systems and Technology Inland water supplies are under increasing pressure. Climate, social, and demographic change have begun tipping the balance toward demand management, as supplies begins to dwindle. Water and wastewater infrastructure will play a central role in the management of this increasingly valuable resource, and Smart Water Technologies and Techniques: Data Capture and Analysis for Sustainable Water Management provides insight on a key part of the

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solution. Smart water applications optimise the way water and wastewater services are used, allowing more efficient allocation of limited resources while adding flexibility to the system. Automation, real-time data capture, and rapid interpretation allow utilities and users to monitor, manage, and act on the part of the water cycle that matters to them, minimizing costs of providing service through optimal use of extant assets. This book brings together the core principles, key developments, and current state-of-the-art into a single resource that: Considers smart water within operational, economic, policy, and regulatory contexts Provides a comprehensive overview of the smart water concept and the latest advances in the field Examines key considerations and objections raised to date Discusses the potential value of smart water, from perception to policy Shows how smart water systems can

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optimize efficiency and flexibility of water and wastewater management Explores future directions for smart water development in the pursuit of balanced supply and demand Although primarily designed for water supply and sanitation, smart water systems may be applied to irrigation, reservoir and dam management, inland water flows, and more, making it a valuable asset as water scarcity begins to spread around the globe. This book answers the questions, assuages concerns, and explains the technology that could revolutionize the way water is accessed and supplied.

Smart grid and microgrid technology are growing exponentially as they are adopted throughout the world. These new technologies have revolutionized the way electricity is produced, delivered, and consumed, and offer a plethora of benefits as well as the potential for further growth.

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It is critical to examine the current stage of smart grid and microgrid development as well as the direction they are headed as they continue to expand in order to ensure that cost-effective, reliable, and efficient systems are put in place. The Research Anthology on Smart Grid and Microgrid Development is an all-encompassing reference source of the latest innovations and trends within smart grid and microgrid development. Detailing benefits, challenges, and opportunities, it is a crucial resource to fully understand the current opportunities that smart grids and microgrids present around the world.

Covering a wide range of topics such as traditional grids, future smart grids, electrical distribution systems, and microgrid integration, it is ideal for engineers, policymakers, systems developers, technologists, researchers, government officials, academicians, environmental groups, regulators, utilities specialists,

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industry professionals, and students. The book includes selected high-quality research papers presented at the Third International Congress on Information and Communication Technology held at Brunel University, London on February 27–28, 2018. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of Things (IOT), and e-mining. Written by experts and researchers working on ICT, the book is suitable for new researchers involved in advanced studies.

Vault Guides

Artificial Intelligence and Machine

Learning for EDGE Computing

Smart Grid Security

How Data Will Save Our Water and Your Utility

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*OECD Information Technology Outlook
2010*

*Appraising the Economics of Smart Meters
Behind and Beyond the Meter*

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

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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,

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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. This book focuses on the economics of smart meters and is one of the first to present comprehensive evidence on the impacts, cost-benefits and risks associated with smart metering. Throughout this volume, Jacopo Torriti integrates his findings from institutional cost-benefit analyses and smart metering trials in a range of European countries with key economic and social concepts

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and policy insights derived from almost ten years of research in this area. He explores the extent to which the benefits of smart meters outweigh the cost, and poses key questions including: which energy savings can be expected from the roll out of smart meters in households? Is Cost-Benefit Analysis an appropriate economic tool for assessing the impacts of smart metering rollouts? Can smart meters play a significant role in research on people's activities and the timing of energy demand? Torriti concludes by providing a much-needed survey of recent changes and expected future developments in this growing field.

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This book will be of great interest to students and scholars of energy policy and demand and smart metering infrastructure.

The Measuring the Information Society Report (MISR), which has been published annually since 2009, features key ICT data and benchmarking tools to measure the information society, including the ICT Development Index (IDI). The IDI 2015 captures the level of ICT developments in 167 economies worldwide and compares progress made since the year 2010. The MISR 2015 assesses IDI findings at the regional level and highlights countries that rank at the top of the IDI and those that have improved

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their position in the overall IDI rankings most dynamically since 2010. The report will feature a review and quantitative assessment of the global ITU goals and targets agreed upon at PP-14 and included in the Connect 2020 Agenda. In addition, the MISR will show the results of the ICT Price Basket (IPB) and present and analyze fixed and mobile broadband price data for around 180 economies. The report also includes a chapter looking into recent developments of the Internet of Things (IoT). This book is intended for electric utility managers, directors, and power system planners, regulators, and policy makers interested in the

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steps needed to realize the value of a modern power delivery system. This book describes the elements needed in planning and implementing a "Smart Grid" by outlining how the electricity delivery system can be modernized so it monitors, protects, and automatically optimizes the operation of its interconnected elements—from the central and distributed generator through the high-voltage network and distribution system, to energy storage installations and to end-use consumers and their thermostats, electric vehicles, appliances, and other household devices. This comprehensive guide highlights

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emerging concepts of cyber and physical security, resiliency, and the newest architecture—"The Integrated Grid." You'll gain an understanding of how a two-way flow of electricity and information can be used to create an automated, widely distributed energy delivery network.

Smart Economy in Smart Cities

Big Data Computing

Digitalization, Aggregation,

Optimization, Monetization

Charting Your Strategy for Next-

Generation Business Analytics

Edge Power Driving Sustainability

Semantic Service Integration for

Smart Grids

9th EAI International Conference,

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CloudComp 2019, and 4th EAI International Conference, SmartGIFT 2019, Beijing, China, December 4-5, 2019, and December 21-22, 2019

Learn all you need to know about seven key innovations disrupting business analytics today. These innovations—the open source business model, cloud analytics, the Hadoop ecosystem, Spark and in-memory analytics, streaming analytics, Deep Learning, and self-service analytics—are radically changing how businesses use data for competitive advantage. Taken together, they are disrupting the business analytics value chain, creating new opportunities. Enterprises who seize the

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opportunity will thrive and prosper, while others struggle and decline: disrupt or be disrupted. Disruptive Business Analytics provides strategies to profit from disruption. It shows you how to organize for insight, build and provision an open source stack, how to practice lean data warehousing, and how to assimilate disruptive innovations into an organization. Through a short history of business analytics and a detailed survey of products and services, analytics authority Thomas W. Dinsmore provides a practical explanation of the most compelling innovations available today. What You'll Learn Discover how the open source business model works and how to make it

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work for you See how cloud computing completely changes the economics of analytics Harness the power of Hadoop and its ecosystem Find out why Apache Spark is everywhere Discover the potential of streaming and real-time analytics Learn what Deep Learning can do and why it matters See how self-service analytics can change the way organizations do business Who This Book Is For Corporate actors at all levels of responsibility for analytics: analysts, CIOs, CTOs, strategic decision makers, managers, systems architects, technical marketers, product developers, IT personnel, and consultants.

France: Doing Business and

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Investing in ... Guide Volume 1
Strategic, Practical Information,
Regulations, Contacts

What exactly is smart grid? Why is it receiving so much attention?

What are utilities, vendors, and regulators doing about it?

Answering these questions and more, *Smart Grids: Infrastructure, Technology, and Solutions* gives readers a clearer understanding of the drivers and infrastructure of one of the most talked-about topics in the electric utility market—smart grid.

This book brings together the knowledge and views of a vast array of experts and leaders in their respective fields. **Key Features**
Describes the impetus for change in the electric utility industry

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Discusses the business drivers, benefits, and market outlook of the smart grid initiative Examines the technical framework of enabling technologies and smart solutions Identifies the role of technology developments and coordinated standards in smart grid, including various initiatives and organizations helping to drive the smart grid effort Presents both current technologies and forward-looking ideas on new technologies Discusses barriers and critical factors for a successful smart grid from a utility, regulatory, and consumer perspective Summarizes recent smart grid initiatives around the world Discusses the outlook of the drivers and technologies for the next-

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generation smart grid Smart grid is defined not in terms of what it is, but what it achieves and the benefits it brings to the utility, consumer, society, and environment. Exploring the current situation and future challenges, the book provides a global perspective on how the smart grid integrates twenty-first-century technology with the twentieth-century power grid. CRC Press Authors Speak Stuart Borlase speaks about his book.

Watch the video

This book presents valuable contributions devoted to practical applications of Machine Intelligence and Big Data in various branches of the industry. All the contributions are extended versions of

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presentations delivered at the Industrial Session the 6th International Conference on Pattern Recognition and Machine Intelligence (PREMI 2015) held in Warsaw, Poland at June 30- July 3, 2015, which passed through a rigorous reviewing process. The contributions address real world problems and show innovative solutions used to solve them. This volume will serve as a bridge between researchers and practitioners, as well as between different industry branches, which can benefit from sharing ideas and results.

Efficient and Provably Secure Schemes for Vehicular Ad-Hoc Networks

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Pharmaceutical Care in Digital
Revolution
Cloud Computing, Smart Grid and
Innovative Frontiers in
Telecommunications
The Smart Eco-efficient Built
Environment
International Collaborative
Research: Ottawa, St.Louis,
Stuttgart, Bologna, Cape Town,
Nairobi, Dakar, Lagos, New Delhi,
Varanasi, Vijayawada, Kozhikode,
Hong Kong
Third International Congress on
Information and Communication
Technology
The Advanced Smart Grid
Due to market forces and
technological evolution, Big
Data computing is developing

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at an increasing rate. A wide variety of novel approaches and tools have emerged to tackle the challenges of Big Data, creating both more opportunities and more challenges for students and professionals in the field of data computation and analysis. Presenting a mix of industry cases and theory, *Big Data Computing* discusses the technical and practical issues related to Big Data in intelligent information management. Emphasizing the adoption and diffusion of Big Data tools and technologies in industry, the book introduces a broad range of Big Data

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concepts, tools, and techniques. It covers a wide range of research, and provides comparisons between state-of-the-art approaches. Comprised of five sections, the book focuses on: What Big Data is and why it is important Semantic technologies Tools and methods Business and economic perspectives Big Data applications across industries

The scope of the research presented includes semantic-based integration of data services in smart grids achieved through following the proposed (S2)In-approach developed corresponding to

design science guidelines. This approach identifies standards and specifications, which are integrated in order to build the basis for the (S2)In-architecture. A process model is introduced in the beginning, which serves as framework for developing the target architecture. The first step of the process stipulates to define requirements for smart grid ICT-architectures being derived from established studies and divided into two classes: architecture and non-functional requirements (NFR). Based on the architecture requirements, the following specifications have

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been basically selected: The IEC CIM representing a domain-specific data model, the OPC UA being a communication standard with special respects to information modeling, and WSMO as an approach to realize the concept of Semantic Web Services. The next step specifies to develop both, a semantic information model (integration of CIM and OPC UA) and semantic services (integration of CIM and WSMO). These two components are then combined to obtain the target architecture, which allows precise descriptions of

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services as well as their combination and semi-automatic execution. Finally, the NFR are considered in order to evaluate the architecture based on simulated, representative use cases.

Data-intensive science has the potential to transform scientific research and quickly translate scientific progress into complete solutions, policies, and economic success. But this collaborative science is still lacking the effective access and exchange of knowledge among scientists, researchers, and policy makers across a range

of disciplines. Bringing together leaders from multiple scientific disciplines, Data-Intensive Science shows how a comprehensive integration of various techniques and technological advances can effectively harness the vast amount of data being generated and significantly accelerate scientific progress to address some of the world's most challenging problems. In the book, a diverse cross-section of application, computer, and data scientists explores the impact of data-intensive science on current research and describes emerging technologies that

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will enable future scientific breakthroughs. The book identifies best practices used to tackle challenges facing data-intensive science as well as gaps in these approaches. It also focuses on the integration of data-intensive science into standard research practice, explaining how components in the data-intensive science environment need to work together to provide the necessary infrastructure for community-scale scientific collaborations. Organizing the material based on a high-level, data-intensive science workflow, this book provides an understanding of the

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scientific problems that would benefit from collaborative research, the current capabilities of data-intensive science, and the solutions to enable the next round of scientific advancements. This book constitutes the refereed proceedings of the 9th International Conference on Cloud Computing, CloudComp 2019, and the 4th International Conference on Smart Grid and Innovative Frontiers in Telecommunications, SmartGIFT 2019, both held in Beijing, China, in December 2019. The 55 full papers of both conferences were

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selected from 113 submissions. CloudComp 2019 presents recent advances and experiences in clouds, cloud computing and related ecosystems and business support. The papers are grouped thematically in tracks on cloud architecture and scheduling; cloud-based data analytics; cloud applications; and cloud security and privacy. SmartGIFT 2019 focus on all aspects of smart grids and telecommunications, broadly understood as the renewable generation and distributed energy resources integration, computational intelligence applications, information and

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communication technologies.

Innovative Solutions for a
Modernized Grid

ICICT 2018, London

EBOOK: International
Marketing, 5e

Second International
Conference, ISDDC 2018,

Vancouver, BC, Canada,
November 28-30, 2018,

Proceedings

Development and Governance
Frameworks

Smart Water Technologies and
Techniques

Cybersecurity in Smart Homes

This book provides a comprehensive
exploration of some of the most critical
issues regarding the EU's Energy
Union policy. Applied European energy

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policies face a number of challenges ranging from the geopolitics of energy and energy regulation, to climate change, advancing renewable and gas technologies, and consumer empowerment structures. This book takes a multi-dimensional look into some of these vital issues regarding the European energy sector with a special focus on the effects the Energy Union policy has in two sensitive regional systems, Southeastern Europe and the Eastern Mediterranean. Energy, being by definition a multi-disciplinary field, presents a challenge for readers of any specific disciplinary background that need to grasp an overall understanding of the various aspects of this exciting sector. This book's objective is to offer the opportunity for readers to get a quality, hands-on overview of the Energy Union by the professionals and

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academics that interact with it on a daily basis.

Smart homes use Internet-connected devices, artificial intelligence, protocols and numerous technologies to enable people to remotely monitor their home, as well as manage various systems within it via the Internet using a smartphone or a computer. A smart home is programmed to act autonomously to improve comfort levels, save energy and potentially ensure safety; the result is a better way of life. Innovative solutions continue to be developed by researchers and engineers and thus smart home technologies are constantly evolving. By the same token, cybercrime is also becoming more prevalent. Indeed, a smart home system is made up of connected devices that cybercriminals can infiltrate to access private

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information, commit cyber vandalism or infect devices using botnets. This book addresses cyber attacks such as sniffing, port scanning, address spoofing, session hijacking, ransomware and denial of service. It presents, analyzes and discusses the various aspects of cybersecurity as well as solutions proposed by the research community to counter the risks. Cybersecurity in Smart Homes is intended for people who wish to understand the architectures, protocols and different technologies used in smart homes.

Placing emphasis on practical how-to guidance, this cutting-edge resource provides you with a first-hand, insiderOCO's perspective on the advent and evolution of smart grids in the 21st century (smart grid 1.0). You gain a thorough understanding of the building

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blocks that comprise basic smart grids, including power plant, transmission substation, distribution, and meter automation. Moreover, this forward-looking volume explores the next step of this technology's evolution. It provides a detailed explanation of how an advanced smart grid incorporates demand response with smart appliances and management mechanisms for distributed generation, energy storage, and electric vehicles. The Advanced Smart Grid uses the design and construction of the first citywide smart grid in the US as a case study, sharing the many successes and lessons learned. You gain working knowledge of successful tools and best practices that are needed to overcome diverse technological and organizational challenges as you strive to build a next-generation advanced smart grid (smart

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grid 2.0). Additionally, this unique book offers a glimpse at the future with interconnected advanced smart grids and a redesigned energy ecosystem (smart grid 3.0)."

This open access book constitutes the refereed proceedings of the 17th International Conference on String Processing and Information Retrieval, ICOST 2019, held in New York City, NY, USA, in October 2019. The 15 full papers and 5 short papers presented in this volume were carefully reviewed and selected from 24 submissions. They cover topics such as: e-health technology design; well-being technology; biomedical and health informatics; and smart environment technology.

Insights Towards Circular Innovation
Smart Biosensor Technology
Intelligent, Secure, and Dependable

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Systems in Distributed and Cloud Environments

Aspects of the Energy Union

Data-Intensive Science

Smart Metering Design and Applications

Smart Cities

This book focuses on the design of secure and efficient signature and signcryption schemes for vehicular ad-hoc networks (VANETs). We use methods such as public key cryptography (PKI), identity-based cryptography (IDC), and certificateless cryptography (CLC) to design bilinear pairing and elliptic curve cryptography-based signature and signcryption schemes and

prove their security in the random oracle model. The signature schemes ensure the authenticity of source and integrity of a safety message. While signcryption schemes ensure authentication and confidentiality of the safety message in a single logical step. To provide readers to study the schemes that securely and efficiently process a message and multiple messages in vehicle to vehicle and vehicle to infrastructure communications is the main benefit of this book. In addition, it can benefit researchers, engineers, and

graduate students in the fields of security and privacy of VANETs, Internet of vehicles security, wireless body area networks security, etc. Artificial Intelligence and Machine Learning for Predictive and Analytical Rendering in Edge Computing focuses on the role of AI and machine learning as it impacts and works alongside Edge Computing. Sections cover the growing number of devices and applications in diversified domains of industry, including gaming, speech recognition, medical diagnostics, robotics and computer vision and how

they are being driven by Big Data, Artificial Intelligence, Machine Learning and distributed computing, may it be Cloud Computing or the evolving Fog and Edge Computing paradigms. Challenges covered include remote storage and computing, bandwidth overload due to transportation of data from End nodes to Cloud leading in latency issues, security issues in transporting sensitive medical and financial information across larger gaps in points of data generation and computing, as well as design

features of Edge nodes to store and run AI/ML algorithms for effective rendering. Provides a reference handbook on the evolution of distributed systems, including Cloud, Fog and Edge Computing Integrates the various Artificial Intelligence and Machine Learning techniques for effective predictions at Edge rather than Cloud or remote Data Centers Provides insight into the features and constraints in Edge Computing and storage, including hardware constraints and the technological/architectural

developments that shall overcome those constraints This volume constitutes the thoroughly refereed post-conference proceedings of the First EAI International Summit, Smart City 360°, held in Bratislava, Slovakia and Toronto, ON, Canada, in October 2015. The 77 carefully reviewed papers include eight conferences: The Bratislava program covered the Conference on Sustainable Solutions beyond Mobility of Goods (SustainableMoG 2015), the MOBIDANUBE conference which strengthens research in the field of mobility

opportunities and within Danube strategy, and the conference on Social Innovation and Community Aspects of Smart Cities (SmartCityCom 2015). In parallel the SmartCity360 Toronto included five conferences addressing urban mobility (SUMS), sustainable cities (S2CT), smart grids (SGSC), wearable devices for health and wellbeing (SWIT Health), and big data (BigDASC). The historical ways in which electricity was generated in large central power plants and delivered to passive

customers through a one-way transmission and distribution network – as everyone knows – is radically changing to one where consumers can generate, store and consume a significant portion of their energy needs energy locally. This, however, is only the first step, soon to be followed by the ability to share or trade with others using the distribution network. More exciting opportunities are possible with the increased digitalization of BTM assets, which in turn can be aggregated into large portfolios of flexible load and

generation and optimized using artificial intelligence and machine learning. Examines the latest advances in digitalization of behind-the-meter assets including distributed generation, distributed storage and electric vehicles and – more important – how these assets can be aggregated and remotely monitored unleashing tremendous value and a myriad of innovative services and business models Examines what lies behind-the-meter (BTM) of typical customers and why managing these assets increasingly

matter Describes how smart aggregators with intelligent software are creating value by optimizing how energy may be generated, consumed, stored o potentially shared o traded and between consumers; prosumers and prosumagers (that is, prosumers with storage) Explores new business models that are likely to disrupt the traditional interface between the incumbents and their customers

Vault Guide to the Top 50 Management and Strategy Consulting Firms, 2014 Edition Business opportunities and

***development trends of
emerging smart cities in China
Smart Grid Planning and
Implementation
Costs and Benefits
How AI Impacts Urban Living
and Public Health
Measuring the Information
Society Report 2015
11th International Symposium,
PETS 2011, Waterloo, ON,
Canada, July 27-29, 2011,
Proceedings***

Start-Up Creation: The Smart Eco-efficient Built Environment provides a state-of-the-art review on high-technology applications and explains how these can be applied to improve the eco-efficiency of the built

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environment. Divided into four main parts, the book explains the key factors behind successful startup companies that grow from university research, including the development of a business plan, the importance of intellectual property, necessary entrepreneurial skills, and innovative thinking. Part Two presents the latest research findings on nano and bio-based technologies and their application and use to the energy efficiency of the built environment. Part Three focuses on the use of genetic algorithms, Big Data, and the Internet of Things applications. Finally, the book ends with an entire section dedicated to App development using selected case studies that

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illustrate their application and use for monitoring building energy-efficiency. Presents a definitive guide for startups that arise from college and university research, and how the application of advanced technologies can be applied to the built environment Includes case studies on new advanced technologies and apps development Links startup creation to the eco-efficient built environment through software applications

Based on the success of the first edition, this second edition continues to build upon fundamental principles of biosensor design and incorporates recent advances in intelligent materials and novel fabrication techniques for a broad

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range of real world applications. The book provides a multi-disciplinary focus to capture the ever-expanding field of biosensors. Smart Biosensor Technology, Second Edition includes contributions from leading specialists in a wide variety of fields with a common focus on smart biosensor design. With 21 chapters organized in five parts, this compendium covers the fundamentals of smart biosensor technology, important issues related to material design and selection, principles of biosensor design and fabrication, advances in bioelectronics, and a look at specific applications related to pathogen detection, toxicity monitoring, microfluidics and healthcare. Features Provides

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a solid background in the underlying principles of biosensor design and breakthrough technologies for creating more intelligent biosensors Focusses on material design and selection including cutting-edge developments in carbon nanotubes, polymer nanowires, and porous silicon Examines machine learning and introduces concepts such as DNA-based molecular computing for smart biosensor function Explores the principles of bioelectronics and nerve cell microelectrode arrays for creating novel transducers and physiological biosensors Devotes several chapters to biosensors developed to detect and monitor a variety of toxins and pathogens Offers expert

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opinions on the future directions, challenges and opportunities in the field

Smart Metering Design and Applications
Springer Science & Business Media

Abstract

Due to the high population density in urban areas worldwide, China - with the world largest population - is facing the increased pressure with respect to resource management as well. In order to sustain its economic growth, China has begun seeking new opportunities and the smart city concept - boasting a potential market value worth trillions of RMB - seems to be an optimal

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solution to obtain more investment funds from international and Chinese ICT companies. This report profiles the definition of a smart city and provides insight into the government policies, current industry development strategies and new opportunities expected to create for cities undertaking the smart city initiative in China.

Machine Intelligence and Big Data in Industry

France: Doing Business, Investing in France Guide Volume 1

Strategic, Practical Information, Regulations, Contacts

Peak Energy Demand and Demand Side Response

First EAI International Summit,

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*Smart City 360°, Bratislava,
Slovakia and Toronto, Canada,
October 13-16, 2015. Revised
Selected Papers
Infrastructure, Technology, and
Solutions
Network Computing and
Information Security
Wi-Fi/WLAN Monthly Newsletter
04-10*

*This invaluable text/reference
investigates the state of the art in
approaches to building, monitoring,
managing, and governing smart
cities. A particular focus is placed on
the distributed computing
environments within the
infrastructure of such cities,
including issues of device
connectivity, communication,
security, and interoperability. A
selection of experts of international*

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repute offer their perspectives on current trends and best practices, and their suggestions for future developments, together with case studies supporting the vision of smart cities based on the Internet of Things (IoT). Topics and features: examines the various methodologies relating to next-level urbanization, including approaches to security and privacy relating to social and legal aspects; describes a recursive and layered approach to modeling large-scale resource management systems for self-sustainable cities; proposes a novel architecture for hybrid vehicular wireless sensor networks, and a pricing mechanism for the management of natural resources; discusses the challenges and potential solutions to building smart city surveillance systems, applying

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knowledge-based governance, and adopting electric vehicles; covers topics on intelligent distributed systems, IoT, fog computing paradigms, big data management and analytics, and smart grids; reviews issues of sustainability in the design of smart cities and healthcare services, illustrated by case studies taken from cities in Japan, India, and Brazil. This illuminating volume offers a comprehensive reference for researchers investigating smart cities and the IoT, students interested in the distributed computing technologies used by smart living systems, and practitioners wishing to adopt the latest security and connectivity techniques in smart city environments.

Pharmaceutical Care in Digital

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Revolution demonstrates how blending human and digital pharmaceutical care can establish optimal Apothecary Intelligence (AI). Organized into four parts, it examines digital health advances that will synergize the pharmaceutical care process and prepares stakeholders for a dynamic future, fueled with innovation. Beginning with the global picture on health care systems, patients' expectations, and current pharmaceutical care practices, the book covers details of relevant digital technologies as well as compliance, ethical, educational, and cultural aspects to take successful steps towards digital pharmaceutical care. The text includes links to lectures and technology facts, tutorials on how to implement advances in your

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own working environment, and examples of stakeholders who are successful in building synergy between digital and pharma. Pharmaceutical Care in Digital Revolution is a practical resource to equip pharmaceutical care stakeholders, such as pharmacists, physicians, pharmacy technicians, and students as well as those in surrounding ecosystems like payers or regulators. It is a crucial reference to understand how technological innovation is changing the paradigm in which we provide current and future pharmaceutical care and how to keep it accessible, affordable, and sustainable. Learn about advances in digital health technology and apply them as a change leader to create circular pharmaceutical care Provides

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insights on future pharmaceutical care and implement essential conditions to create the best outlook for patients Access links, QR codes, and explanatory animations as educational material to the book The Smart Grid security ecosystem is complex and multi-disciplinary, and relatively under-researched compared to the traditional information and network security disciplines. While the Smart Grid has provided increased efficiencies in monitoring power usage, directing power supplies to serve peak power needs and improving efficiency of power delivery, the Smart Grid has also opened the way for information security breaches and other types of security breaches. Potential threats range from meter manipulation to directed, high-impact attacks on

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critical infrastructure that could bring down regional or national power grids. It is essential that security measures are put in place to ensure that the Smart Grid does not succumb to these threats and to safeguard this critical infrastructure at all times. Dr. Florian Skopik is one of the leading researchers in Smart Grid security, having organized and led research consortia and panel discussions in this field. Smart Grid Security will provide the first truly holistic view of leading edge Smart Grid security research. This book does not focus on vendor-specific solutions, instead providing a complete presentation of forward-looking research in all areas of Smart Grid security. The book will enable practitioners to learn about upcoming trends, scientists to share

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new directions in research, and government and industry decision-makers to prepare for major strategic decisions regarding implementation of Smart Grid technology. Presents the most current and leading edge research on Smart Grid security from a holistic standpoint, featuring a panel of top experts in the field. Includes coverage of risk management, operational security, and secure development of the Smart Grid. Covers key technical topics, including threat types and attack vectors, threat case studies, smart metering, smart home, e- mobility, smart buildings, DERs, demand response management, distribution grid operators, transmission grid operators, virtual power plants, resilient architectures,

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communications protocols and encryption, as well as physical security.

Taking into account the present day trends and the requirements, this Brief focuses on smart metering of electricity for next generation energy efficiency and conservation. The contents include discussions on the smart metering concepts and existing technologies and systems as well as design and implementation of smart metering schemes together with detailed examples.

Architectures, Solutions and Technologies

Smart Grids

Research Anthology on Smart Grid and Microgrid Development

The Smart Grid for Water

Application and Effects of European Energy Policies in SE Europe and

Eastern Mediterranean

This book constitutes the proceedings of the Second International Conference on Network Computing and Information Security, NCIS 2012, held in Shanghai, China, in December 2012. The 104 revised papers presented in this volume were carefully reviewed and selected from 517 submissions. They are organized in topical sections named: applications of cryptography; authentication and non-repudiation; cloud computing; communication and information systems;

design and analysis of cryptographic algorithms; information hiding and watermarking; intelligent networked systems; multimedia computing and intelligence; network and wireless network security; network communication; parallel and distributed systems; security modeling and architectures; sensor network; signal and information processing; virtualization techniques and applications; and wireless network.

Smarter Water • Increase Revenue • Decrease Costs •

***Delight Customers •
Preserve Our Most Vital
Resource Solving the Water
Crisis With Data Supply-side
engineering - massive
reservoirs, colossal water
diversion schemes, pumping
rivers across mountaintops,
and even desalination - are
relics of a bygone era in
water management. The
environmental and financial
costs are simply too high. No
supply-side solution can
match the simplicity,
resilience and effectiveness
of a data-driven demand-side
management program that
reduces consumption,***

identifies losses, increases the life of our existing infrastructure and improves the financial capabilities of our utilities. The development of the smart grid for water is, for the first time, providing water managers with a complete understanding of not only how much water is used, but where and when. The 21st century water manager needs to manage the flow of data and information as well as the flow of water. Our future depends on it. In its 5th edition International Marketing

guides students to understand the importance of international marketing for companies of every size and how going international can enhance value and growth. It provides a solid understanding of the key principles and practices of international marketing. The text has been thoroughly updated to reflect the most recent developments in the current business environment and encourages students to critically engage with the content within the context of modern life. Key Features: - A new chapter

dedicated to Digital and Social Media Marketing - Fully updated pedagogy, including 'Going International' vignettes and End of Chapter questions - Brand new examples and case studies from global and innovative companies including Red Bull, Gillette and Audi - Now includes Interactive activities, Testbank questions and Quizzes available on Connect® International Marketing is available with McGraw Hill's Connect®, the online learning platform that features resources to

help faculty and institutions improve student outcomes and course delivery efficiency. "International Marketing continues to be an essential subject in any business or management degree. Ghauri and Cateora's book, now in its fifth edition, provides a most up-to-date and authentic evolution of the subject." George S. Yip, Emeritus Professor of Marketing and Strategy, Imperial College Business School. Professor Pervez Ghauri teaches International Business at Birmingham Business

School. He is Founding Editor for International Business Review (IBR) and Consulting Editor for Journal of International Business Studies (JIBS). Philip R. Cateora is Professor Emeritus at the University of Colorado. His teaching spanned a range of courses in marketing and international business from fundamentals through to doctoral level.