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Smart Cities and the UN SDGs Electric Vehicle Integration in a Smart Microgrid Environment Smart Enough Systems The Internet of Things for Smart Urban Ecosystems SMART Approach to Spine Clinical Research Digital and Smart Cities Artificial Intelligence of Things for Smart Green Energy Management Smart Cities for Technological and Social Innovation Smart Use of State Public Health Data for Health Disparity Assessment Why You Need Smart Enough Systems (Digital Short Cut) The Smart Approach to Bath Design Power System Protection in Smart Grid Environment Smart Things and Femtocells Smart Villages in the EU and Beyond Think and Eat Yourself Smart S.M.A.R.T. Goals Made Simple Co-Creation and Smart Cities Energy Positive Neighborhoods and Smart Energy Districts Smart Microgrids The Advanced Smart Grid: Edge Power Driving Sustainability, Second Edition Smart Skills: Building Career Success Smart Retailing The Smart Approach to Window Decor Smart Sensors and Systems Large Scale Optimization in Supply Chains and Smart Manufacturing Green and Smart Technologies for Smart Cities Artificial Intelligence for Disease Diagnosis and Prognosis in Smart Healthcare Smart but Scattered Burstiness Management for Smart, Sustainable and Inclusive Growth: Emerging Research and Opportunities Breakthroughs in Smart City Implementation Advances and New Trends in Environmental and Energy Informatics Smart Cities and Machine Learning in Urban Health Solving Urban Infrastructure Problems Using Smart City Technologies Creating Smart Cities Global Trends of Smart Cities Smart Yoga Smart Modeling for Engineering Systems Emergence of Cyber Physical System and IoT in Smart Automation and Robotics Innovations in Smart Cities Applications Volume 5 Making Smart Cities More Playable

With distributed generation interconnection power flow becoming bidirectional, culminating in network problems,

smart grids aid in electricity generation, transmission, substations, distribution and consumption to achieve a system that is clean, safe (protected), secure, reliable, efficient, and sustainable. This book illustrates fault analysis, fuses, circuit breakers, instrument transformers, relay technology, transmission lines protection setting using DIGsILENT Power Factory. Intended audience is senior undergraduate and graduate students, and researchers in power systems, transmission and distribution, protection system broadly under electrical engineering. "Automated decisions systems are probably already being used in your industry, and they will undoubtedly grow in importance. If your business needs to make quick, accurate decisions on an industrialized scale, you need to read this book." Thomas H. Davenport, Professor, Babson College, Author of *Competing on Analytics* The computer-based systems most organizations rely on to support their businesses are not very smart. Many of the business decisions these companies make tend to be hidden in systems that make poor decisions, or don't make them at all. Further, most systems struggle to keep up with the pace of change. The answer is not to implement newer, "intelligent" systems. The fact is that much of today's existing technology has the potential to be "smart enough" to make a big difference to an organization's business. This book tells you how. Although the business context and underlying principles are explained in a nontechnical manner, the book also contains how-to guidance for more technical readers. The book's companion site, www.smartenoughsystems.com, has additional information and references for practitioners as well as news and updates.

Additional Praise for Smart (Enough) Systems "James Taylor and Neil Raden are on to something important in this book—the tremendous value of improving the large number of routine decisions that are made in organizations every day." Dr. Hugh J. Watson, Chair of Business Administration, University of Georgia "This is a very important book. It lays out the agenda for business technology in the new century—nothing less than how to reorganize every aspect of how a company treats its customers." David Raab, President,

ClientXClient "This book is an important contribution to business productivity because it covers the opportunity from both the business executive's and technologist's perspective. This should be on every operational executive's and every CIO's list of essential reading." John Parkinson, Former CTO, Capgemini, North American Region "This book shows how to use proven technology to make business processes smarter. It clearly makes the case that organizations need to optimize their operational decisions. It is a must-have reference for process professionals throughout your organization." Jim Sinur, Chief Strategy Officer, Global 360, Inc. Breakthroughs in Smart City Implementation should give answers on a wide variety of present social, political and technological problems. Green and long-lasting solutions are needed in coming 10 years and beyond on areas as green and long lasting solutions for improving air quality, quality of life of residents in cities, traffic congestions and many more. Two Conasense branches, established in China and in India, report in six book chapters on initiatives needed to overcome the obvious shortcomings at present. Three more chapters complete this fifth Conasense book: an introductory chapter concerning Smart City from Conasense perspective, a chapter showing that not technology but the people in the cities are most important and a chapter on recent results and prospects of "Human in the Loop" in smart vehicular systems. This book is intended to assist in the development of smart and efficient green energy solutions. It introduces energy systems, power generation, and power demands which able to minimise generation costs, power loss or environmental effects. It proposes cutting-edge solutions and approaches based on recent technologies such as intelligent renewable energy systems (wind and solar). These solutions, applied to different sectors, can provide a solid basis for meeting the needs of both developed and developing countries. The book provides a collection of contributions including new techniques, methods, algorithms, practical solutions and models based on applying artificial intelligence and the Internet of things into green energy management systems. It

provides a comprehensive reference for researchers, scholars and industry in the field of green energy and computational intelligence. There's nothing more frustrating than watching your bright, talented son or daughter struggle with everyday tasks like finishing homework, putting away toys, or following instructions at school. Your "smart but scattered" 4- to 13-year-old might also have trouble coping with disappointment or managing anger. Drs. Peg Dawson and Richard Guare have great news: there's a lot you can do to help. The latest research in child development shows that many kids who have the brain and heart to succeed lack or lag behind in crucial "executive skills"--the fundamental habits of mind required for getting organized, staying focused, and controlling impulses and emotions. Learn easy-to-follow steps to identify your child's strengths and weaknesses, use activities and techniques proven to boost specific skills, and problem-solve daily routines. Helpful worksheets and forms can be downloaded and printed in a convenient 8 1/2" x 11" size. Small changes can add up to big improvements--this empowering book shows how. See also the authors' Smart but Scattered Teens and their self-help guide for adults. Plus, an academic planner for middle and high school students and related titles for professionals. This is the eBook version of the printed book. It is commonly believed that the computer-based systems most organizations rely on to support their businesses are not very smart. Many of the business decisions these companies make tend to be hidden in systems that make poor decisions, or don't make them at all. Further, most systems aren't configured to learn from the past and therefore struggle to keep up with the pace of change. While many organizations believe the answer is to implement newer, "intelligent" systems, the fact is that much of today's existing technology has the potential to be "smart enough" to make a big difference to an organization's business. This digital Short Cut lays out a cry for systems that are smart enough to help companies survive and thrive in the world as it is today. Showing how the neglect of operational decisions prevents effective implementation of strategy and describing

the characteristics of effective operational decision-making, the Short Cut establishes the role of operational decisions. The characteristics of the smart enough systems modern business needs are explained, and the absolute requirement for a new approach is outlined. This Short Cut is a reproduction of the "Smart Enough Systems Manifesto" and "Why You Need Smart Enough Systems" chapters from the book. This Short Cut should be of interest to software and business professionals. In particular, it will be of value to those managing information systems and application development projects in defining the goals they should have in building better systems, and to business owners who are frustrated by their current systems but cannot articulate how or why to change things.

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highlights a more robust value-based perspective on public service development and delivery, helping structure co-creation processes that foster responsible innovation and a systemic, value-based approach to sustainable urban development.

Health services are often fragmented along organizational lines with limited communication among the public health-related programs or organizations, such as mental health, social services, and public health services. This can result in disjointed decision making without necessary data and knowledge, organizational fragmentation, and disparate knowledge development across the full array of public health needs. When new questions or challenges arise

that require collaboration, individual public health practitioners (e.g., surveillance specialists and epidemiologists) often do not have the time and energy to spend on them. *Smart Use of State Public Health Data for Health Disparity Assessment* promotes data integration to aid crosscutting program collaboration. It explains how to maximize the use of various datasets from state health departments for assessing health disparity and for disease prevention. The authors offer practical advice on state public health data use, their strengths and weaknesses, data management insight, and lessons learned. They propose a bottom-up approach for building an integrated public health data warehouse that includes localized public health data. The book is divided into three sections: Section I has seven chapters devoted to knowledge and skill preparations for recognizing disparity issues and integrating and analyzing local public health data. Section II provides a systematic surveillance effort by linking census tract poverty to other health disparity dimensions. Section III provides in-depth studies related to Sections I and II. All data used in the book have been geocoded to the census tract level, making it possible to go more local, even down to the neighborhood level. This book explores the ways in which the broad range of technologies that make up the smart city infrastructure can be harnessed to incorporate more playfulness into the day-to-day activities that take place within smart cities, making them not only more efficient but also more enjoyable for the people who live and work within their confines. The book addresses various topics that will be of interest to playable cities stakeholders, including the human-computer interaction and game designer communities, computer scientists researching sensor and actuator technology in public spaces, urban designers, and (hopefully) urban policymakers. This is a follow-up to another book on *Playable Cities* edited by Anton Nijholt and published in 2017 in the same book series, *Gaming Media and Social Effects*. In cities around the world, digital technologies are utilized to manage city services and infrastructures, to govern urban life, to solve urban issues and to drive local

and regional economies. While "smart city" advocates are keen to promote the benefits of smart urbanism - increased efficiency, sustainability, resilience, competitiveness, safety and security - critics point to the negative effects, such as the production of technocratic governance, the corporatization of urban services, technological lock-ins, privacy harms and vulnerability to cyberattack. This book, through a range of international case studies, suggests social, political and practical interventions that would enable more equitable and just smart cities, reaping the benefits of smart city initiatives while minimizing some of their perils. Included are case studies from Ireland, the United States of America, Colombia, the Netherlands, Singapore, India and the United Kingdom. These chapters discuss a range of issues including political economy, citizenship, standards, testbedding, urban regeneration, ethics, surveillance, privacy and cybersecurity. This book will be of interest to urban policymakers, as well as researchers in Regional Studies and Urban Planning.

Practical information and design advice homeowners need to choose window treatments like a professional. Over 150 color photos and 270 illustrations. The book starts with an overview of the role of cities in climate change and environmental pollution worldwide, followed by the concept description of smart cities and their expected features, focusing on green technology innovation. This book explores the energy management strategies required to minimize the need for huge investments in high-capacity transmission lines from distant power plants. A new range of renewable energy technologies modified for installation in cities like small wind turbines, micro-CHP and heat pumps are described. The overall objective of this book is to explore all the green and smart technologies for designing green smart cities. Electric Vehicle Integration in a Smart Microgrid Environment

The growing demand for energy in today's world, especially in the Middle East and Southeast Asia, has been met with massive exploitation of fossil fuels, resulting in an increase in environmental pollutants. In order to mitigate the issues arising from conventional internal

combustion engine-powered vehicles, there has been a considerable acceleration in the adoption of electric vehicles (EVs). Research has shown that the impact of fossil fuel use in transportation and surging demand in power owing to the growing EV charging infrastructure can potentially be minimized by smart microgrids. As EVs find wider acceptance with major advancements in high efficiency drivetrain and vehicle design, it has become clear that there is a need for a system-level understanding of energy storage and management in a microgrid environment. Practical issues, such as fleet management, coordinated operation, repurposing of batteries, and environmental impact of recycling and disposal, need to be carefully studied in the context of an ageing grid infrastructure. This book explores such a perspective with contributions from leading experts on planning, analysis, optimization, and management of electrified transportation and the transportation infrastructure. The primary purpose of this book is to capture state-of-the-art development in smart microgrid management with EV integration and their applications. It also aims to identify potential research directions and technologies that will facilitate insight generation in various domains, from smart homes to smart cities, and within industry, business, and consumer applications. We expect the book to serve as a reference for a larger audience, including power system architects, practitioners, developers, new researchers, and graduate-level students, especially for emerging clean energy and transportation electrification sectors in the Middle East and Southeast Asia. Smart Cities and the UN's SDGs explores how smart cities initiatives intersect with the global goal of making urbanization inclusive, resilient, and sustainable. Topics explored include digital governance, e-democracy, health care access, public-private partnerships, well-being, and more. Examining smart cities concepts, tools, strategies, and obstacles and their applicability to sustainability, the book exposes key structural problems that cities face and how the imperative of sustainability can bypass them. It shows how smart city technological innovation can boost

citizens' well-being, serving as a key reference for those seeking to make sense of the issues and challenges of smart cities and SDGs. Includes numerous case studies from around the world Features interdisciplinary insights from academic and practitioner experts Offers an extensive literature review Energy Positive Neighborhoods and Smart Energy Districts: Methods, Tools, and Experiences from the Field is a comprehensive guide to this highly interdisciplinary topic. Monti et. al's combined experience make them the most qualified team of editors to explore the processes and tools involved in creating Energy Positive Neighborhoods and Smart Energy Districts in an urban setting. Tools include: A complete simulation library to quickly support the implementation of a model of the scenario A set of possible approaches to neighborhood energy optimization An open, extensible information model for neighbourhood asset description The structure of this book offers different reading paths to appeal to the very varied audience it addresses. It describes the process of adaption and the challenges faced by the decision makers, and also how simulation, optimisation, ICT approaches and business models are combined in a holistic and pragmatic way. It also offers possible business models and a means to quantify them to complete the development process. This book is suitable for students on multi-disciplinary energy engineering courses, energy practitioners, ICT vendors aiming to develop new services to target the building industry, and decision makers aiming to structure an urban renovation program. Delivers a significant amount of exclusive knowledge on the topics of energy positive neighborhoods and smart energy districts Allows readers to grasp the complexity of this interdisciplinary topic by providing access to well-structured processes and tools Includes real life examples of the transformation of two demonstration sites that illustrate the concepts discussed to add context and value to their implementation Science is beginning to understand that our thinking has a deep and complicated relationship with our eating. Our thoughts before, during, and after eating profoundly impact our food choices, our digestive

health, our brain health, and more. Yet most of us give very little thought to our food beyond taste and basic nutritional content. In this revolutionary book, Dr. Caroline Leaf packs an incredible amount of information that will change readers' eating and thinking habits for the better. Rather than getting caught up in whether we should go raw or vegan, gluten-free or paleo, Leaf shows readers that every individual is unique, has unique nutritional needs, and has the power to impact their own health through the right thinking. There's no one perfect solution. Rather, she shows us how to change the way we think about food and put ourselves on the path towards health. Anyone who is tired of traditional diet plans that don't work, who struggles with emotional eating, or who simply isn't satisfied with their level of health will find in this book the key to discovering how they can begin developing a healthier body, brain, and spirit. This book provides a comprehensive overview for the use of femtocells in smart Internet of Things (IoT) environments. Femtocells will help mobile operators to provide a basis for the next generation of services which are a combination of voice, video, and data services to mobile users. This book discusses modelling traffic and deployment strategies in femtocells and provides a review for the use of femtocells and their applications in IoT environments. Moreover, it highlights the efficient real-time medium access, data delivery, caching and security aspects in smart spaces. It concludes by presenting open research issues associated with smart IoT-femtocell based applications. In this book the authors first provide a comprehensive survey on the available studies on control, management, and optimization strategies in AC and DC microgrids. The authors then provide the design of a laboratory-scale microgrid system. Finally, a real-world implementation of the deigned framework is provided. This book paves the way for researchers working on the smart microgrids spread over the fields of electrical engineering, power systems, and smart infrastructures. Furthermore, it provides the readers with a comprehensive insight to understand an in-depth big picture of smart microgrids as

well as an all-inclusive framework for laboratory-scale implementation of a microgrid. It is suitable for senior undergraduate students, graduate students who are interested in research in areas related to future smart grids and microgrids, and the researchers working in the related areas. This book also can be used as a reference book for researchers who want to develop laboratories on smart microgrids for future research. Cyber-Physical Systems (CPS) integrate computing and communication capabilities by monitoring and controlling the physical systems via embedded hardware and computers. This book brings together new and futuristic findings on IoT, Cyber Physical Systems and Robotics leading towards Automation and solving issues of various critical applications in Real-time. The book initially overviews the concepts of IoT, IIoT and Cyber Physical Systems followed by various critical applications and discusses the latest designs and developments that provide common solutions for the convergence of technologies. In addition, the book specifies methodologies, algorithms and other relevant architectures in various fields that include Automation, Robotics, Smart Agriculture and Industry 4.0. The book is intended for practitioners, enterprise representatives, scientists, students and Ph.D Scholars in hopes of steering research further towards cyber physical systems design and development and implementation across various domains. Additionally, this book can be used as a secondary reference, or rather one-stop guide, by professionals for real-life implementation of cyber physical systems. The book highlights:

- A Critical Coverage of various domains: IoT, Cyber Physical Systems, Industry 4.0, Smart Automation and related critical applications.
- Advanced elaborations for target audiences to understand the conceptual methodology and future directions of cyber physical systems and IoT.
- An approach towards Research Orientations to enable researchers to point out areas and scope for implementation of Cyber Physical Systems in several domains for better productivity. This book presents the latest findings and ongoing research in the field of green information systems and green information and

communication technology (ICT). It provides insights into a whole range of cross-cutting topics in ICT and environmental sciences as well as showcases how information and communication technologies allow environmental and energy efficiency issues to be handled effectively. The papers presented in this book are a selection of extended and improved contributions to the 28th International Conference on Informatics for Environmental Protection dedicated to ICT for energy efficiency. This book is essential and particularly worth reading for those who already gained basic knowledge and want to deepen and extend their expertise in the subjects mentioned above.

DISCOVER:: How to Set Professional and Personal Goals That You Actually Achieve Do you often set goals that you never seem to reach? We're all filled with dreams and aspirations. Most long for fulfilling relationships. Some desire personal freedom. Others want fame and success. And some strive for profitable businesses. Wherever your ambitions may lie, goal setting can get you there. On the other hand, the wrong goal can leave you feeling frustrated and unmotivated. When you set a goal that's too lofty, it's easy to give up when your dreams don't turn into reality. We all have important milestones we'd like to reach. The trick is to create a plan and commit to it. Setting S.M.A.R.T. goals can help you do this.

TAKE ACTION:: Focus on S.M.A.R.T. Goals and Get Real Results It's easy to set S.M.A.R.T. goals. Simply write down a desired outcome on a piece of paper and create a deadline for achieving it. The hard part is taking action. As you know, the Internet is full of books that talk about setting goals. The problem? Most don't talk about the daily actions (or habits) required to achieve them. In the book, "S.M.A.R.T. Goals Made Simple", you'll get a ten-step plan for setting and achieving your goals. Unlike other titles, this book will teach you how to turn any idea into an actionable plan. Not only will you get an overview of S.M.A.R.T. goals, you'll also get a blueprint for turning them into daily routines.

DOWNLOAD:: S.M.A.R.T. Goals Made Simple -- 10 Steps to Master Your Personal and Career Goals "S.M.A.R.T. Goals Made Simple" contains a detailed blueprint of how to

turn any major life goal into a doable daily plan. You will learn how to: ** Understand what makes a good S.M.A.R.T. goal ** Identify what you truly want to achieve ** Set goals for all 7 areas of your life ** Focus on three-month goals that are achievable ** Follow 5 steps for turning S.M.A.R.T. goals into habits ** Schedule the completion these habits with a weekly review ** Use mind mapping to identify every step for achieving a goal ** Track the daily progress of your goals ** Overcome five obstacles to S.M.A.R.T. goal setting ** Review your goals (the right way) and make sure you're staying on track ** Stay motivated by using the power of accountability Goal setting doesn't have to be difficult. You can achieve any major goal by following the right plan. And "S.M.A.R.T. Goals Made Simple" can help you do this. Would You Like To Know More? Download and start working on your goals today. Scroll to the top of the page and select the buy button.

Digital and Smart Cities presents an overview of how technologies shape our cities. There is a growing awareness in the fields of design and architecture of the need to address the way that technology affects the urban condition. This book aims to give an informative and definitive overview of the topic of digital and smart cities. It explores the topic from a range of different perspectives, both theoretical and historical, and through a range of case studies of digital cities around the world. The approach taken by the authors is to view the city as a socially constructed set of activities, practices and organisations. This enables the discussion to open up a more holistic and citizen-centred understanding of how technology shapes urban change through the way it is imagined, used, implemented and developed in a societal context. By drawing together a range of currently quite disparate discussions, the aim is to enable the reader to take their own critical position within the topic. The book starts out with definitions and sets out the various interpretations and aspects of what constitutes and defines digital cities. The text then investigates and considers the range of factors that shape the characteristics of digital cities and draws together different disciplinary

perspectives into a coherent discussion. The consideration of the different dimensions of the digital city is backed up with a series of relevant case studies of global city contexts in order to frame the discussion with real world examples. Solving Urban Infrastructure Problems Using Smart City Technologies is the most complete guide for integrating next generation smart city technologies into the very foundation of urban areas worldwide, showing how to make urban areas more efficient, more sustainable, and safer. Smart cities are complex systems of systems that encompass all aspects of modern urban life. A key component of their success is creating an ecosystem of smart infrastructures that can work together to enable dynamic, real-time interactions between urban subsystems such as transportation, energy, healthcare, housing, food, entertainment, work, social interactions, and governance. Solving Urban Infrastructure Problems Using Smart City Technologies is a complete reference for building a holistic, system-level perspective on smart and sustainable cities, leveraging big data analytics and strategies for planning, zoning, and public policy. It offers in-depth coverage and practical solutions for how smart cities can utilize resident's intellectual and social capital, press environmental sustainability, increase personalization, mobility, and higher quality of life. Brings together experts from academia, government and industry to offer state-of-the-art solutions for urban system problems, showing how smart technologies can be used to improve the lives of the billions of people living in cities across the globe Demonstrates practical implementation solutions through real-life case studies Enhances reader comprehension with learning aid such as hands-on exercises, questions and answers, checklists, chapter summaries, chapter review questions, exercise problems, and more Intervals of high-activity alternating with long low-activity periods can be found in many areas of daily life, with researchers coining the phenomenon as bursts. As burstiness has become prevalent in many fields, understanding it and knowing how to manage it are crucial in order to be able to get all the benefits

associated with it. *Burstiness Management for Smart, Sustainable and Inclusive Growth: Emerging Research and Opportunities* provides innovative insights into burstiness's role in decision-making in business and its function as a predictor of performance. The content within this publication covers topics such as burstiness in business and e-business applications, as well as consumer behavior and sustainable development. It is a vital reference source for business managers, business professionals, academicians, researchers, and graduate-level students interested in understanding how burstiness and its consequences are processed in diverse and dynamic environments. The perception of smart cities encompasses a strategy that uses different types of technologies, artificial intelligence (AI), and machine learning and in which, through the internet of things (IoT) and sensor-based data collection, the strategy extrapolates information using insights gained from that data to manage or monitor or track assets, resources, and services efficiently in an urban area. Both these models deeply affect the localities where they are applied and can create together immense possibilities for urban recovery, better quality of life, physical and mental health protection, and economic and social redevelopment. *Smart Cities and Machine Learning in Urban Health* promotes interdisciplinary work that develops and illustrates the concept of resilience in relation to smart city and machine learning. The book examines the ability of an area and its communities to recover quickly from difficulties; the rigidity and resistance of an area and its communities to possible crisis; the ability of an area, its communities, infrastructure, and business to spring back into shape; and the responsiveness and mitigation towards the crisis with a special look at the impact of the COVID-19 pandemic. The research's theoretical foundation rests on a wide range of non-architectural sources, primarily AI, sociology, urban studies, and technological development, but it explores everything on cases taken from real cities, thus transforming them into pieces of architectural interest. Covering topics such as carbon emissions, digital healthcare

systems, and urban transformation, this book is an essential resource for graduate and post-graduate students, policymakers, researchers, university faculty, engineers, public management, hospital administration, professors, and academicians. This book highlights the work of several world-class researchers on smart modeling of complex systems. The contributions are grouped into the four main categories listed below.

- Numerical schemes construction for the solution of partial differential equations.
- Numerical methods in continuum media mechanics problems.
- Mathematical modeling in aerodynamics, plasma physics, deformable body mechanics, and geological hydrocarbon exploration.
- Mathematical modeling in medical applications.

The book offers a valuable resource for theoreticians and application scientists and engineers, as well as postgraduate students, in the fields of computational methods, numerical experiments, parallel algorithms, deformable solid bodies, seismic stability, seismic prospecting, migration, elastic and acoustic wave investigation, gas dynamics, astrophysics, aerodynamics, fluid dynamics, turbulent flows, hypersonic flows, detonation waves, composite materials, fracture mechanics, melting of metals, mathematical economics, medicine, and biology.

Book 5 of the Smart Skills series: practical guides to mastering vital business skills and techniques. Using proven strategies from business experts, these essential smart skills can empower anyone with the tools to get ahead. The only book you need to succeed in the world of business

In today's working environment, building your career success can seem like a minefield, thanks to increasing levels of competition, accountability, limited potential for advancement, and a lack of opportunities available. The only way to stay on top of the game is to build up your 'soft skills' and accumulate useful experience that makes you stand out from the crowd. This concise and simple Smart Skills guide will show how and where to focus your energies when you want to become a more successful professional:

Developing your skills and competencies
Capitalising on your resources, strengths and weaknesses
Building strong work

relationships Increasing your visibility in and out of the workplace Making best use of your business knowledge With these easy steps, professionals at any grade can achieve peak performance and start climbing that ladder to career success. In this book, theory of large scale optimization is introduced with case studies of real-world problems and applications of structured mathematical modeling. The large scale optimization methods are represented by various theories such as Benders' decomposition, logic-based Benders' decomposition, Lagrangian relaxation, Dantzig-Wolfe decomposition, multi-tree decomposition, Van Roy' cross decomposition and parallel decomposition for mathematical programs such as mixed integer nonlinear programming and stochastic programming. Case studies of large scale optimization in supply chain management, smart manufacturing, and Industry 4.0 are investigated with efficient implementation for real-time solutions. The features of case studies cover a wide range of fields including the Internet of things, advanced transportation systems, energy management, supply chain networks, service systems, operations management, risk management, and financial and sales management. Instructors, graduate students, researchers, and practitioners, would benefit from this book finding the applicability of large scale optimization in asynchronous parallel optimization, real-time distributed network, and optimizing the knowledge-based expert system for convex and non-convex problems. Global Trends of Smart Cities provides integrated analysis of 135 cities that participated in the IBM's Smarter Cities Challenge in 2010-2017. It establishes evidence-based benchmarking of city geographies, city sizes, governance structures, and local planning contexts in smart cities. This book uses a combination of descriptive statistical analysis and real-world case study narratives to evaluate the ways in which each individual urban variable or their combination matter in the diversity of smart city approaches around the globe. It is acknowledged that the Smarter Cities Challenge offers a particular set of smart initiatives and is not representative of all smart cities around the world.

Nevertheless, the global presence of the Challenge across five continents and its involvement with 135 cities of all size and socioeconomic status provides a solid foundation to conduct comparative research on smart cities. Considering limited comparative research available in the smart city debate, this book makes significant contribution in understanding the state of smart city development in urban governments worldwide. Offers an integrated assessment of smart cities using a combination of statistical analysis and real-world case study narrations Compares smart city interventions from the 135 cities that participated in the Smarter Cities Challenge with detailed case study narrations included for 17 cities Demonstrates the ways in which geography, size, governance, and local planning context—each individually and in combination with each other—influence smart city development around the globe Develops an urban research perspective to the smart city discourse otherwise dominated by digital and IT specialists, engineers, and business experts Identifies the North-South divide as the most influential factor explaining how smart urbanism is framed worldwide and argues that the future of smart city development depends on how "smart" approaches the ongoing and increasing level of inequity and inequality not only within our cities but also at the transregional and transnational levels Increasing depopulation is causing huge problems for rural communities, leading to a reduction in services and infrastructure in areas with ageing populations. This book examines the concept of the Smart Village, an ICT-conscious integrated strategy which provides a sustainable solution to these problems, helping to revitalize rural areas. David Moore draws on thirty years of teaching to bring fresh and practical insights into how the Alexander Technique can contribute to a safer and more effective yoga practice. With a wealth of illustrations that support the clear, precise explanations, this book offers comprehensive advice in modifying a yoga practice to take into account the huge variability in individual ranges of movement. Moore includes techniques to accommodate limitations imposed by injuries, structure, body type,

strength, and flexibility. Smart Yoga offers an explanation of the Alexander Technique's approach to posture and movement, suggestions for altering faulty breathing patterns, and information about how Hatha Yoga, Patanjali, and Buddhist insight practices relate to the Alexander Technique. By providing a comprehensive theoretical framework, this book aims to map the most relevant technologies that have the potential to reshape the retail industry. The authors demonstrate how technology is pushing innovation, and examine how smart technologies can be fruitfully applied both in-store and through digital channels. The aim of the book is to synthesise theory and practice, and provide a richer understanding of new digital opportunities offered by the 'smart' experience. An accessible resource for researchers who want to understand this phenomenon as part of their expertise in digital marketing and e-commerce, Smart Retailing also provides insights for practitioners who are experiencing the dramatic effects of new technologies on their retail strategies. This book describes for readers technology used for effective sensing of our physical world and intelligent processing techniques for sensed information, which are essential to the success of Internet of Things (IoT). The authors provide a multidisciplinary view of sensor technology from materials, process, circuits, and big data domains and showcase smart sensor systems in real applications including smart home, transportation, medical, environmental, agricultural, etc. Unlike earlier books on sensors, this book will provide a "global" view on smart sensors covering abstraction levels from device, circuit, systems, and algorithms. Profiles active research on smart sensors based on CMOS microelectronics; Describes applications of sensors and sensor systems in cyber physical systems, the social information infrastructure in our modern world; Includes coverage of a variety of related information technologies supporting the application of sensors; Discusses the integration of computation, networking, actuation, databases, and various sensors, in order to embed smart sensor systems into actual social systems. Placing emphasis

on practical "how-to" guidance, this cutting-edge resource provides a first-hand, insider's perspective on the advent and evolution of smart grids in the 21st century. This book presents engineers, researchers, and students with the building 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. This updated second edition focuses on the disruptive impact of DER. This new edition also includes a glossary with well over 100 acronyms and terms, acknowledging the tremendous challenge for a student of smart energy and smart grid to grasp this complex industry. Provides information and inspiration on bathroom design, including working with professionals, developing a budget, rearranging space, selecting products and materials, and incorporating safety into a design plan. This book sets the innovative research contributions, works, and solutions for almost all the intelligent and smart applications in the smart cities. The smart city concept is a relevant topic for industrials, governments, and citizens. Due to this, the smart city, considered as a multi-domain context, attracts tremendously academics researchers and practitioners who provide efforts in theoretical proofs, approaches, architectures, and in applied researches. The importance of smart cities comes essentially from the significant growth of populations in the near future which conducts to a real need of smart applications that can support this evolution in the future cities. The main scope of this book covers new and original ideas for the next generations of cities using the new technologies. The book involves the application of the data science and AI, IoT technologies and architectures, smart earth and water management, smart education and E-learning systems, smart modeling systems, smart mobility, and renewable energy. It also reports recent research works on big data technologies, image processing and recognition

systems, and smart security and privacy. Artificial Intelligence (AI) in general and machine learning (ML) and deep learning (DL) in particular and related digital technologies are a couple of fledging paradigms that next-generation healthcare services are sprinting towards. These digital technologies can transform various aspects of healthcare, leveraging advances in computing and communication power. With a new spectrum of business opportunities, AI-powered healthcare services will improve the lives of patients, their families, and societies. However, the application of AI in the healthcare field requires special attention given the direct implication with human life and well-being. Rapid progress in AI leads to the possibility of exploiting healthcare data for designing practical tools for automated diagnosis of chronic diseases such as dementia and diabetes. This book highlights the current research trends in applying AI models in various disease diagnoses and prognoses to provide enhanced healthcare solutions. The primary audience of the book are postgraduate students and researchers in the broad domain of healthcare technologies. Features In-depth coverage of the role of AI in smart healthcare Research guidelines for AI and data science researchers/practitioners interested in the healthcare sector Comprehensive coverage on security and privacy issues for AI in smart healthcare The main objective of this book is to provide a multidisciplinary overview of methodological approaches, architectures, platforms, and algorithms for the realization of an Internet of Things (IoT)-based Smart Urban Ecosystem (SUE). Moreover, the book details a set of real-world applications and case studies related to specific smart infrastructures and smart cities, including structural health monitoring, smart urban drainage networks, smart grids, power efficiency, healthcare, city security, and emergency management. A Smart Urban Ecosystem (SUE) is a people-centric system of systems that involves smart city environments, applications, and infrastructures. SUEs require the close integration of cyber and physical components for monitoring, understanding and controlling the urban environment. In this context, the Internet of Things

(IoT) offers a valuable enabling technology, as it bridges the gap between physical things and software components, and empowers cooperation between distributed, pervasive, and heterogeneous entities. Smart Cities for Technological and Social Innovation establishes a key theoretical framework to understand the implementation and development of smart cities as innovation drivers, in terms of lasting impacts on productivity, livability and sustainability of specific initiatives. This framework is based on empirical analysis of 12 case studies, including pioneer projects from Europe, Asia, the Middle East, and more. It explores how successful smart cities initiatives nurture both technological and social innovation using a combination of regulatory governance and private agency. Typologies of smart city-making approaches are explored in depth. Integrative analysis identifies key success factors in establishing innovation relating to the effectiveness of social systems, institutional thickness, governance, the role of human capital, and streamlining funding of urban development projects. Cases from a range of geographies, scales, social and economic contexts Explores how smart cities can promote technological and social innovation in terms of direct impacts on livability, productivity and sustainability Establishes an integrative framework based on empirical evidence to develop more innovative smart city initiatives Investigates the role of governments in coordinating, fostering and guiding innovations resulting from smart city developments Interrogates the policies and governance structures which have been effective in supporting the development and deployment of smart cities The SMART Approach to Spine Clinical Research is a must-have guide for spine care professionals seeking to make a meaningful contribution to the scientific literature and advance their careers by publishing high-quality clinical research. Planning, conducting, and publishing the results of your clinical research can be a long and arduous journey. The SMART Approach to Spine Clinical Research presents and explains the many interrelated components essential to spine clinical research in an easily accessible way, guiding you

step-by-step through the principles and methods of planning and evaluating clinical research. Also addressed are special topics such as getting your manuscript published and conducting a meta-analysis. This SMART approach provides a clear and simple road map for the planning, execution, and critical appraisal of clinical research.

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