Challenges Of Smart Cities

Miltiadis Lytras, Anna Visvizi

Smart Cities: Issues and Challenges Anna Visvizi, Miltiadis Lytras, 2019-06-18

Smart Cities: Issues and Challenges Mapping Political, Social and Economic Risks and Threats serves as a primer on smart cities, providing readers with no prior knowledge on smart cities with an understanding of the current smart cities debates. Gathering cutting-edge research and insights from academics, practitioners and policymakers around the globe, it identifies and discusses the nascent threats and challenges contemporary urban areas face, highlighting the drivers and ways of navigating these issues in an effective manner. Uniquely providing a blend of conceptual academic analysis with empirical insights, the book produces policy recommendations that boost urban sustainability and resilience. Combines conceptual academic approaches with empirically-driven insights and best practices Offers new approaches and arguments from inter and multi-disciplinary perspectives Provides foundational knowledge and comparative insight from global case-studies that enable critical reflection and operationalization Generates policy recommendations that pave the way to debate and case-based planning

Smart Cities—Opportunities and Challenges Sirajuddin Ahmed, S. M. Abbas, Hina Zia, 2020-04-20

This book comprises select proceedings of the International Conference on Smart Cities: Opportunities and Challenges (ICSC 2019). The book contains chapters based on urban planning and design, policies and financial management, environment, energy, transportation, smart materials, sustainable development, information technologies, data management and urban sociology reflecting the major themes of the conference. The contents focus on current research towards improved governance and efficient management of infrastructure such as water, energy, transportation and housing for sustainable development, economic growth, and improved quality of life, especially for developing nations. This book will be useful for academicians, researchers, and policy makers interested in designing, developing, planning, managing, and maintaining smart cities.

Sustainable Smart Cities in India Poonam Sharma, Swati Rajput, 2017-03-27

This book presents fundamental and applied research aimed at the development of smart cities across India. Based on the exploration of an extensive array of multidisciplinary literature, this book discusses critical factors of smart city initiatives: management and organization, technology, governance, policy, people and communities, economy, infrastructure, and natural environment. These factors are broadly covered under the integrative framework of the book to examine the vision and challenges of smart city initiatives. The book suggests directions and agendas for smart city research and outlines practical implications for
government professionals, students, research scholars and policy makers. A lot of work is happening on smart cities as it is an upcoming area of research and development. At international level, and even in India, the concept of smart cities concept is a hot topic at universities, research centers, ministries, transport departments, civic bodies, environment, energy and disaster organizations, town planners and policy makers. This book provides ideas and information to government officials, investors, experts and research students.

**Internet of Everything and Big Data** Salah-ddine Krit, Mohamed Elhoseny, Valentina Emilia Balas, Rachid Benlamri, Marius M. Balas, 2021-07-25 There currently is no in-depth book dedicated to the challenge of the Internet of Everything and Big Data technologies in smart cities. Humankind today is confronting a critical worldwide portability challenge and the framework that moves cities must keep pace with the innovation. Internet of Everything and Big Data: Major Challenges in Smart Cities reviews the applications, technologies, standards, and other issues related to smart cities. This book is dedicated to addressing the major challenges in realizing smart cities and sensing platforms in the era of Big Data cities and Internet of Everything. Challenges vary from cost and energy efficiency to availability and service quality. This book examines security issues and challenges, addresses the total information science challenges, covers exploring and creating IoT environment-related sales adaptive systems, and investigates basic and high-level concepts using the latest techniques implemented by researchers and businesses. The book is written for analysts, researchers, and specialists who are working on the future generation of the technologies. It will serve as a valuable guide for those in the industry, and students as well.

**Challenges and Solutions for Sustainable Smart City Development** R. Maheswar, M. Balasaraswathi, Ravi Rastogi, A. Sampathkumar, G. R. Kanagachidambaresan, 2021-05-22 This book discusses advances in smart and sustainable development of smart environments. The authors discuss the challenges faced in developing sustainable smart applications and provide potential solutions. The solutions are aimed at improving reliability and security with the goal of affordability, safety, and durability. Topics include health care applications, sustainable smart transportation systems, intelligent sustainable wearable electronics, and sustainable smart building and alert systems. Authors are from both industry and academia and present research from around the world. Addresses problems and solutions for sustainable development of smart cities; Includes applications such as healthcare, transportation, wearables, security, and more; Relevant for scientist and researchers working on real time smart city development.

**Security in Smart Cities: Models, Applications, and Challenges** Aboul Ella Hassanien, Mohamed Elhoseny, Syed Hassan Ahmed, Amit Kumar Singh, 2018-11-04 This book offers an essential guide to IoT Security, Smart Cities, IoT Applications, etc. In addition, it presents a structured introduction to the subject of destination marketing and an exhaustive review on the challenges of information security in smart and intelligent applications, especially for IoT and big data contexts. Highlighting
the latest research on security in smart cities, it addresses essential models, applications, and challenges. Written in plain and straightforward language, the book offers a self-contained resource for readers with no prior background in the field. Primarily intended for students in Information Security and IoT applications (including smart cities systems and data heterogeneity), it will also greatly benefit academic researchers, IT professionals, policymakers and legislators. It is well suited as a reference book for both undergraduate and graduate courses on information security approaches, the Internet of Things, and real-world intelligent applications.

The Global Smart City Filippo Marchesani, 2023-12-14 Through a comprehensive analysis of smart city projects, this study sheds light on the urban, economic, and competitive outcomes of integrating new technologies to create a groundbreaking exploration of the transformative impact of smart cities in today's urban landscape.

Smart Cities Alfredo Barton, Raymond Manning, 2017 There are several different definitions of smart cities based on the various characteristics related to the adjective Smart and the noun City. The Smart City commonly involves new intelligent technological tools, services and applications integrated in platforms, providing interoperability and coordination among several sectors, which are crucial for the future life of urban communities and have impacts on the environment. Chapter One describes the smart city as a concept, discusses the issues that have arisen in the post-GFC society, the need for a smart environment vision, and the importance of moving the focus from the remoteness and rigidity of national government back to a more grassroots level, while still taking advantage of the benefits offered by the technological advances that have made. Chapter Two highlights the working mechanism, advantages and disadvantages of ICT technology applied to transportation in the field of safety improvement, environmental sustainability, road redesign and traveller behavioural change. Chapter Three seeks to answer if and to what extent urban communication may be either a guarantee or a possibility to create a citizen identity. In Chapter Four, a Renewable Wireless Sensor Network (RWSN) architecture for human sensing is presented to study the spatial and temporal information of urban space utilization and pedestrian flow. Chapter Five focuses on the ways in which specific key concepts, such as those of data collection, syntax and affordance, present a dynamic intervention tool, leading to an instrumental and performative construction of a smarter city.

Smart Cities and the UN SDGs Anna Visvizi, Raquel Perez del Hoyo, 2021-04-27 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

**Industry 4.0 Challenges in Smart Cities** Dagmar Cagáňová, Natália Horňáková, 2022-06-20

This book discusses the next level of innovative technologies influencing sectors in industry and their future in industrial, urban and sustainable development. The authors provide a platform for a discussion of a synergy of ideas within smart industrial innovations, approaching them from various points of view. These include industry and management 4.0, the expansion of new business models, smart technologies identifying global challenges, and other new trends and opportunities. New managerial ideas, innovations, and technologies for advances in mobility are highlighted together from a multidisciplinary perspective. This book is relevant to researchers, graduate students and those who are interested in Smart Cities. Discusses unique angles in the fields of Industrial Management Links various global challenges in Industry 4.0, IoT, and Smart City applications by analyzing results in practice

**Smart Cities** Fateh Belaïd, Anvita Arora, 2023-09-30

This edited volume discusses the socioeconomic, environmental, and policy implications of smart cities. Written by international experts in energy economics and policy, the chapters present wide range of high quality theoretical and empirical studies at the nexus of social, entrepreneurial, governmental and ecological transformation. The book covers a wide range of topics, with a view towards providing empirical evidence of the benefits of smart cities as well as practical frameworks for smart city initiatives. Topics discussed include: smart city transition pillars, innovation for smart and sustainable cities design and implementation, smart city governance, smart mobility within cities, and smart cities in emerging economies. This volume will be of use to students and researchers interested in resource economics, energy economics, sustainability, ICT, and governance, as well as policymakers working on smart city initiatives. This is an open access book.

**Solving Urban Infrastructure Problems Using Smart City Technologies** John Vacca, 2020-09-22

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.

**The Smart Enough City** Ben Green, 2019-04-07 Why technology is not an end in itself, and how cities can be “smart enough,” using technology to promote democracy and equity. Smart cities, where technology is used to solve every problem, are hailed as futuristic urban utopias. We are promised that apps, algorithms, and artificial intelligence will relieve congestion, restore democracy, prevent crime, and improve public services. In The Smart Enough City, Ben Green warns against seeing the city only through the lens of technology; taking an exclusively technical view of urban life will lead to cities that appear smart but under the surface are rife with injustice and inequality. He proposes instead that cities strive to be “smart enough”: to embrace technology as a powerful tool when used in conjunction with other forms of social change—but not to value technology as an end in itself. In a technology-centric smart city, self-driving cars have the run of downtown and force out pedestrians, civic engagement is limited to requesting services through an app, police use algorithms to justify and perpetuate racist practices, and governments and private companies surveil public space to control behavior. Green describes smart city efforts gone wrong but also smart enough alternatives, attainable with the help of technology but not reducible to technology: a livable city, a democratic city, a just city, a responsible city, and an innovative city. By recognizing the complexity of urban life rather than merely seeing the city as something to optimize, these Smart Enough Cities successfully incorporate technology into a holistic vision of justice and equity.

**Smart City Emergence** Leonidas Anthopoulos, 2019-06-12 Smart City Emergence: Cases from around the World analyzes how smart cities are currently being conceptualized and implemented, examining the theoretical underpinnings and technologies that connect theory with tangible practice achievements. Using numerous cities from different regions around the globe, the book compares how smart cities of different sizes are evolving in different countries and continents. In addition, it examines the challenges cities face as they adopt the smart city concept, separating fact from fiction, with insights from scholars, government officials and vendors currently involved in smart city implementation. Utilizes a sound and systematic research methodology. Includes a review of the latest research developments. Contains, in each chapter, a brief summary of the case, an illustration of the theoretical context that lies behind the case, the case study itself, and conclusions showing learned outcomes. Examines smart cities in relation to climate change, sustainability, natural disasters, and community resiliency.

**Smart Cities in the Gulf** Wael A. Samad, Elie Azar, 2018-10-29 In this edited volume, academics and practitioners from various disciplines investigate the challenges, opportunities and frameworks in the implementation of Smart Cities in the
The volume presents insightful analyses and identifies key lessons learned through case studies covering four main themes including smart city frameworks and governance, resources and infrastructure, information and communication technologies, and the social perspective. In doing so, the book provides policy recommendations related to smart governance, as well as overall frameworks that cities can adopt in their process of transition, and knowledge that is integral to bridge the gap between various stakeholders in the Smart City milieu. This edited volume comprises extended versions of papers presented at a workshop held at the University of Cambridge, UK titled “Smart Cities in the GCC: Current State, Opportunities and Challenges.”

**Smart Cities Policies and Financing** John R. Vacca, 2022-01-24

Smart Cities Policies and Financing: Approaches and Solutions is the definitive professional reference for harnessing the full potential of policy making and financial planning in smart cities. It covers the effective tools for capturing the dynamic relations between people, policies, financing, and environments, and where they are most often useful and effective for all relevant stakeholders. The book examines the key role of science, technology, and innovation (STI) - especially in information and communications technologies - in the design, development, and management of smart cities policies and financing. It identifies the problems and offers practical solutions in implementation of smart infrastructure policies and financing. Smart Cities Policies and Financing is also about how the implementation of smart infrastructure projects (related to the challenges of the lack of financing and the application of suitable policies) underlines the key roles of science, technology and innovation (STI) communities in addressing these challenges and provides key policies and financing that will help guide the design and development of smart cities. Brings together experts from academia, government and industry to offer state-of-the-art solutions for improving the lives of billions of people in cities around the globe Creates awareness among governments of the various policy tools available, such as output-based contracting, public-private partnerships, procurement policies, long-term contracting, and targeted research funds in order to promote smart infrastructure implementation, and encouraging the use of such tools to shape markets for smart infrastructure and correct market failures Ensures the inclusiveness of smart city projects by adequately addressing the special needs of marginalized sections of society including the elderly, persons with disabilities, and inhabitants of informal settlements and informal sectors Ensures gender considerations in the design of smart cities and infrastructure through the use of data generated by smart systems to make cities safer and more responsive to the needs of women Demonstrate practical implementation through real-life case studies Enhances reader comprehension using learning aids such as hands-on exercises, checklists, chapter summaries, review questions, and an extensive appendix of additional resources

**Smart Cities** Houbing Song, Ravi Srinivasan, Tamim Sookoor, Sabina Jeschke, 2017-07-12

Provides the foundations and principles needed for addressing the various challenges of developing smart cities Smart cities are emerging as a priority for
research and development across the world. They open up significant opportunities in several areas, such as economic
growth, health, wellness, energy efficiency, and transportation, to promote the sustainable development of cities. This book provides the basics of smart cities, and it examines the possible future trends of this technology. Smart Cities: Foundations, Principles, and Applications provides a systems science perspective in presenting the foundations and principles that span multiple disciplines for the development of smart cities. Divided into three parts—foundations, principles, and applications—Smart Cities addresses the various challenges and opportunities of creating smart cities and all that they have to offer. It also covers smart city theory modeling and simulation, and examines case studies of existing smart cities from all around the world. In addition, the book: Addresses how to develop a smart city and how to present the state of the art and practice of them all over the world Focuses on the foundations and principles needed for advancing the science, engineering, and technology of smart cities—including system design, system verification, real-time control and adaptation, Internet of Things, and test beds Covers applications of smart cities as they relate to smart transportation/connected vehicle (CV) and Intelligent Transportation Systems (ITS) for improved mobility, safety, and environmental protection Smart Cities: Foundations, Principles, and Applications is a welcome reference for the many researchers and professionals working on the development of smart cities and smart city-related industries.

**Smart Cities: Issues and Challenges** Miltiadis Lytras, Anna Visvizi, 2019-06-15 In 15 similarly structured chapters, Transitioning to Smart Cities: Mapping Political, Economic, and Social Risks and Threats serves as a primer on smart cities, providing readers with no prior knowledge on smart cities with an understanding of the current smart cities debates. Gathering cutting-edge research and insights from academics, practitioners and policy-makers around the globe, Transitioning to Smart Cities identifies and discusses the nascent threats and challenges contemporary urban areas face, highlighting the drivers and ways of navigating these issues in an effective way. Uniquely providing a blend of conceptual academic analysis with empirical insights, Transitioning to Smart Cities produces policy recommendations that boost urban sustainability and resilience. With the multiplicity of qualitatively new issues and developments in these debates, Transitioning to Smart Cities offer an invaluable framework on current developments shaping today and tomorrow’s urban Combines conceptual academic approaches with empirically-driven insights and best practices Offers new approaches and arguments from inter and multi-disciplinary perspectives Provides foundational knowledge and comparative insight from global case-studies that enable critical reflection and operationalization Generates policy recommendations that pave the way to debate and case-based planning

**Smart Cities, Green Technologies, and Intelligent Transport Systems** Markus Helfert, Karl-Heinz Krempels, Cornel Klein, Brian Donellans, Oleg Guiskhin, 2016-01-06 This book constitutes the thoroughly refereed proceedings of the 4th International Conference on Smart Cities and Green ICT Systems, SMARTGREENS 2015, and the 1st International
Conference on Vehicle Technology and Intelligent Transport Systems, VEHITS 2015, held in Lisbon, Portugal, in May 2015. The 15 full papers of SMARTGREENS 2015 presented were carefully reviewed and selected from 73 submissions. VEHITS 2015 received 27 paper submissions from which 3 papers were selected and published in this book. The papers reflect topics such as smart cities, energy-aware systems and technologies, sustainable computing and communications, sustainable transportation and smart mobility.

OECD Urban Studies Smart City Data Governance Challenges and the Way Forward OECD, 2023-10-13 Smart cities leverage technologies, in particular digital, to generate a vast amount of real-time data to inform policy- and decision-making for an efficient and effective public service delivery. Their success largely depends on the availability and effective use of data.

Embark on a transformative journey with is captivating work, Challenges Of Smart Cities. This enlightening ebook, available for download in a convenient PDF format Download in PDF:, invites you to explore a world of boundless knowledge. Unleash your intellectual curiosity and discover the power of words as you dive into this riveting creation. Download now and elevate your reading experience to new heights.

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