

# **From Smart City To Smart Region Digital Services For An Internet Of Places Springerbriefs In Applied Sciences And Technology**

Smart Cities: Big Data, Civic Hackers, and the Quest  
for a New UtopiaSmart Cities, Smart FutureThe Smart  
City in a Digital WorldSingaporeSmart Cities  
Cybersecurity and PrivacySmart City  
EmergenceSmart City EmergenceSmart CitiesSmart  
CitiesInside Smart CitiesGeographic Information  
System for Smart CitiesCreating Smart CitiesThe  
Smart City TransformationsSmart CitiesUntangling  
Smart CitiesSmart City CitizenshipThe Routledge  
Companion to Smart CitiesDemystifying Smart  
CitiesSmart City - Future City?Smart Cities: Issues and  
ChallengesGreen and Smart Technologies for Smart  
CitiesUnderstanding Smart Cities: A Tool for Smart  
Government or an Industrial Trick?From Smart City to  
Smart RegionSustainable Smart Cities and Smart  
Villages ResearchSmart CitiesSmart City  
GovernanceSmart City in IndiaSmart CitiesSmart  
Cities, Smart FutureUneven InnovationCitizens in the  
'Smart City'Architecture and the Smart CitySmart  
Cities: Issues and ChallengesSmart CityThe Right to  
the Smart CitySmart Cities: Big Data, Civic Hackers,  
and the Quest for a New UtopiaThe Smart Enough  
CitySmart Cities For DummiesIoT and Smart  
CitiesSmart Cities in the Post-algorithmic Era

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## **Smart Cities: Big Data, Civic Hackers, and the Quest for a New Utopia**

Transforming cities through digital innovations is becoming an imperative for every city. However, city ecosystems widely struggle to start, manage and execute the transformation. This book aims to give a comprehensive overview of all facets of the Smart City transformation and provides concrete tools, checklists, and guiding frameworks.

### **Smart Cities, Smart Future**

This book looks at what makes a city smart by describing, challenging, and offering democratic alternatives to the view that the answer begins and ends with technology. Drawing on worldwide case studies documenting the redevelopment of old and the creation of new cities, it provides an essential guide to the future of urban life in a digital world.

### **The Smart City in a Digital World**

This book offers a fascinating exploration of the relationship between information and communication technologies (ICTs) and spatial planning, expanding the concept of “urban smartness” from the usual scale of buildings or urban projects to the regional dimension. In particular, it presents the outcomes of research undertaken at Politecnico di Milano, in collaboration with Telecom Italia, that had three principal goals: to investigate the use of ICTs for the representation, promotion, management, and

dissemination of an integrated system of services; to explore the spatial impacts of digital services at different scales (regional, urban, local); and to understand how a system of mobile services can encourage new spatial uses and new collective behavior in the quest for better spatial quality of places. Useful critical analysis of international case studies is also included with the aim of verifying the opportunities afforded by new digital services not only to improve the urban efficiency but also to foster the evolution of urban communities through enhancement of the public realm. The book will be a source of valuable insights for both scholars and local administrators and operators involved in smart city projects.

## **Singapore**

The era of the smart city has arrived. Only a decade ago, the promise of optimising urban services through the widespread application of information and communication technologies was largely a technoutopian fantasy. Today, smart urbanisation is occurring via urban projects, policies and visions in hundreds of cities around the globe. Inside Smart Cities provides real-world evidence on how local authorities, small and medium enterprises, corporations, utility providers and civil society groups are creating smart cities at the neighbourhood, city and regional scales. Twenty three empirically detailed case studies from the Global North and South - ranging from Cape Town, Stockholm and Abu Dhabi to Philadelphia, Hong Kong and Santiago - illustrate the

multiple and diverse incarnations of smart urbanism. The contributors draw on ideas from urban studies, geography, urban planning, science and technology studies and innovation studies to go beyond the rhetoric of technological innovation and reveal the political, social and physical implications of digitalising the built environment. Collectively, the practices of smart urbanism raise fundamental questions about the sustainability, liveability and resilience of cities in the future. The findings are relevant to academics, students, practitioners and urban stakeholders who are questioning how urban innovation relates to politics and place.

## **Smart Cities Cybersecurity and Privacy**

Increasingly the world around us is becoming 'smart.' From smart meters to smart production, from smart surfaces to smart grids, from smart phones to smart citizens. 'Smart' has become the catch-all term to indicate the advent of a charged technological shift that has been propelled by the promise of safer, more convenient and more efficient forms of living. Most architects, designers, planners and politicians seem to agree that the smart transition of cities and buildings is in full swing and inevitable. However, beyond comfort, safety and efficiency, how can 'smart design and technologies' assist to address current and future challenges of architecture and urbanism? Architecture and the Smart City provides an architectural perspective on the emergence of the smart city and offers a wide collection of resources for developing a better understanding of how smart architecture,

smart cities and smart systems in the built environment are discussed, designed and materialized. It brings together a range of international thinkers and practitioners to discuss smart systems through four thematic sections: 'Histories and Futures', 'Agency and Control', 'Materialities and Spaces' and 'Networks and Nodes'. Combined, these four thematic sections provide different perspectives into some of the most pressing issues with smart systems in the built environment. The book tackles questions related to the future of architecture and urbanism, lessons learned from global case studies and challenges related to interdisciplinary research, and critically examines what the future of buildings and cities will look like.

## **Smart City Emergence**

Smart cities, where technology is used to solve every problem, are hailed as futuristic urban Utopias. But in *The Smart Enough City*, Ben Green warns against seeing the city only through the lens of technology. 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. He proposes instead that cities strive to be "smart enough," employing technology to be livable, democratic, just, responsible, and innovative. 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.

Book jacket.

## **Smart City Emergence**

Smart Cities Cybersecurity and Privacy examines the latest research developments and their outcomes for safe, secure, and trusting smart cities residents. Smart cities improve the quality of life of citizens in their energy and water usage, healthcare, environmental impact, transportation needs, and many other critical city services. Recent advances in hardware and software, have fueled the rapid growth and deployment of ubiquitous connectivity between a city's physical and cyber components. This connectivity however also opens up many security vulnerabilities that must be mitigated. Smart Cities Cybersecurity and Privacy helps researchers, engineers, and city planners develop adaptive, robust, scalable, and reliable security and privacy smart city applications that can mitigate the negative implications associated with cyber-attacks and potential privacy invasion. It provides insights into networking and security architectures, designs, and models for the secure operation of smart city applications. Consolidates in one place state-of-the-art academic and industry research Provides a holistic and systematic framework for design, evaluating, and deploying the latest security solutions for smart cities Improves understanding and collaboration among all smart city stakeholders to develop more secure smart city architectures

Smart city is mindful every second and communicates, in real time, analyzed knowledge to citizen for satisfactory way of life, with easy delivery of services, comfortable mobility, conserving energy, environment and other natural resources, and creating energetic communities and a vibrant urban economy. Geographic Information Systems for Smart Cities explores the role of GIS in upgrading existing cities to smart cities. Beginning with a discussion on process of transition from existing GIS to smart city GIS, the book goes on to explore the GIS for smart and sustainable urbanization; practical difficulties in implementing and maintaining such self-aware GIS; open large scale geo-data management and web map services to achieve the smart city goals; role of GIS in community development. The book explains the adaptive urbanism for sea-level rise and environmentally sensitive land-use allocation for coastal smart cities. Chapters explaining the use of GIS for slum management and smart buildings in smart cities are also included. To emphasize on the importance of mobility in smart cities, the book discusses the role of using intra-day trip generation and travel management for a smart city; intelligent goods transportation system; GIS-based land-use suitability and transportation model. The latter part of the book explores agent-based simulation focused on natural disasters and safe location; biourbanism as a new framework for smart cities studies; new discipline of smart planning. Smart cities future, opportunities and barriers through scenario-based urban planning

support system are discussed in detail. How past Indian experiences can be extended in future for smart Indian cities is explained. The book concludes with the identification of existing cities for upgradation, ways and means of activation of smart communities, smart institutional framework, smart economy and deployment of smart urban technologies. With its distinguished editor and international team of contributors, Geographic Information Systems for Smart Cities is a standard reference work for city planners, urban managers, GIS specialists, and policy makers who are actively involved in building smart cities.

## **Smart Cities**

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

## **Inside Smart Cities**

An unflinching look at the aspiring city-builders of our smart, mobile, connected future. From Beijing to Boston, cities are deploying smart technology—sensors embedded in streets and subways, Wi-Fi broadcast airports and green spaces—to address the basic challenges faced by massive, interconnected metropolitan centers. In *Smart Cities*, Anthony M. Townsend documents this emerging futuristic landscape while considering the motivations, aspirations, and shortcomings of the key actors—entrepreneurs, mayors, philanthropists, and software developers—at work in shaping the new urban frontier.

## **Geographic Information System for Smart Cities**

Are you curious about smart cities? You should be! By mid-century, two-thirds of us will live in cities. The world of tomorrow will be a world of cities. But will they be smart cities? Smart cities are complex blends of technologies, systems and services designed and orchestrated to help people lead productive, fulfilling, safe and happy lives. This remarkable book is a window into our shared future. In crisp language and

sharp detail, Mike Barlow and Cornelia Lévy-Bencheton explain how smart cities are powerful forces for positive change. With keen eyes and warm hearts, they invite readers to imagine the world of tomorrow, a fascinating world of connected cities and communities. They capture and convey the depth and richness of the worldwide smart city movement. Smart Cities, Smart Future describes the impact of smart city projects on people in towns, cities and nations around the world. The book includes descriptions of ongoing smart city projects in North America, Europe, Asia and the Middle East. Looking Ahead to an Urban World No two smart cities are alike. No one can say with certainty or precision what the term “smart city” means. There is no standard definition or common template. Today, smart cities are works in progress. They emerge from our hopes and our dreams. This book provides you with the knowledge and insight you need to participate in the smart city movement. It explains how smart cities are “systems of systems” and introduces key concepts such as interoperability, open standards, resiliency, agility, adaptability and continuous improvement. Includes Detailed Glossary of Terms and Essential Vocabulary The book includes a detailed comprehensive glossary of essential smart city terms. The glossary will become your indispensable resource as you engage more deeply with the smart city movement and become more involved in planning our common future in an urban world. Carefully Researched and Crisply Written Smart Cities, Smart Future is carefully researched and fully documented. It includes interviews with leaders and experts in multiple disciplines essential to the development of

smart cities, towns, regions, states and nations.

Written in the clean style of modern journalism, the book offers a strong and compelling narrative of a changing world. It reminds us that we are responsible for choosing our destiny and determining the shape of things to come. The smart city movement is gaining speed and momentum. Read this book, and enjoy the ride!

## **Creating Smart Cities**

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

## **The Smart City Transformations**

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.

### **Smart Cities**

How Singapore's solutions to common problems can provide examples for other societies. Nearly everyone knows that Singapore has one of the most efficient

governments and competitive, advanced economies in the world. But can this unique city-state of some 5.5 million residents also serve as a model for other advanced economies as well as for the emerging world? Respected East Asia expert Kent Calder provides clear answers to this intriguing question in his new, groundbreaking book that looks at how Singapore's government has harnessed information technology, data, and a focus on innovative, adaptive governance to become a model smart city, smart state. Calder describes Singapore as a laboratory for solutions to problems experienced by urban societies around the world. In particular, he shows how Singapore has dealt successfully with education, energy, environmental, housing, and transportation challenges; many of its solutions can be adapted in a wide range of other societies. Calder also explains how Singapore offers lessons for how countries can adapt their economies to the contemporary demands of global commerce. Singapore consistently ranks at the top in world surveys measuring competitiveness, ease of doing business, protection of intellectual property, and absence of corruption. The book offers concrete insights and a lucid appreciation of how Singapore's answers to near-universal problems can have a much broader relevance, even in very different societies.

## **Untangling Smart Cities**

This book is a printed edition of the Special Issue "Sustainable Smart Cities and Smart Villages Research" that was published in Sustainability

## Smart City Citizenship

As cities compete globally, the Smart City has been touted as the important new strategic driver for regeneration and growth. Smart Cities are employing information and communication technologies in the quest for sustainable economic development and the fostering of new forms of collective life. This has made the Smart City an essential focus for engineers, architects, urban designers, urban planners, and politicians, as well as businesses such as CISCO, IBM and Siemens. Despite its broad appeal, few comprehensive books have been devoted to the subject so far, and even fewer have tried to relate it to cultural issues and to assume a truly critical stance by trying to decipher its consequences on urban space and experience. This cultural and critical lens is all the more important as the Smart City is as much an ideal permeated by Utopian beliefs as a concrete process of urban transformation. This ideal possesses a strong self-fulfilling character: our cities will become 'Smart' because we want them to. This book opens with an examination of the technological reality on which Smart Cities are built, from the chips and sensors that enable us to monitor what happens within the infrastructure to the smartphones that connect individuals. Through these technologies, the urban space appears as activated, almost sentient. This activation generates two contrasting visions: on the one hand, a neo-cybernetic ambition to steer the city in the most efficient way; and on the other, a more bottom-up, participative approach in which empowered individuals invent new modes of

cooperation. A thorough analysis of these two trends reveals them to be complementary. The Smart City of the near future will result from their mutual adjustment. In this process, urban space plays a decisive role. Smart Cities are contemporary with a 'spatial turn' of the digital. Based on key technological developments like geo-localisation and augmented reality, the rising importance of space explains the strategic role of mapping in the evolution of the urban experience. Throughout this exploration of some of the key dimensions of the Smart City, this book constantly moves from the technological to the spatial as well as from a critical assessment of existing experiments to speculations on the rise of a new form of collective intelligence. In the future, cities will become smarter in a much more literal way than what is often currently assumed.

## **The Routledge Companion to Smart Cities**

Smart City Governance examines public domain activities and services in the digital age, evaluating all facets of smart city e-governance that fosters a cohesive understanding for the emerging generation of advanced "digital natives. Exploring the tensions between political science and jurisprudence theories with the principles of societies and their alignment with legal systems, the book examines how governance systems can translate into the digital domain, addressing both the technical and legal dimensions. It offers a model for the technological foundation of governance, discussing existing

technological components. The book concludes with a section on outlooks for further research. Explores the development of sustainable governance by examining how public domain governance can leverage the full potential of smart city technologies Provides insights on the technical side of smart city governance Fuels discussions on how tomorrow's urban public institutions can contribute to a more inclusive and participatory society Provides a system architecture blueprint based on the insights and lessons learned

## **Demystifying Smart Cities**

Untangling Smart Cities: From Theory to Practice helps all key stakeholders understand the complex and often conflicting nature of smart city research, offering valuable insights for designing and implementing strategies to improve the smart city decision-making processes. The book drives the reader to a better theoretical and practical comprehension of smart city development, beginning with a thorough and systematic analysis of the research literature published to date. The book provides an in-depth understanding of the entire smart city knowledge domain, revealing a deeply rooted division in its cognitive-epistemological structure as identified by bibliometric insights. Untangling Smart Cities fills the knowledge gap between theory and practice using case study research, with empirical evidence drawn from cities considered leaders in innovative smart city practices. An invaluable contribution to the growing scientific literature, Untangling Smart Cities provides an

accurate and deep understanding of the strategic principles driving smart city development. Provides clarity on the smart city concepts and strategies Provides a systematic literature analysis on the state-of-the-art of Smart Cities research using bibliometrics combined with practical application to guide smart systems implementation Offers a comprehensive and systematic analysis of Smart Cities research produced during its first three decades, driven by statistical analysis techniques Generates a strong connection between theory and practice by providing the scientific knowledge necessary to approach the complex nature of Smart Cities sourced from the analysis of actual best practices Documents five main development pathways for smart cities development, serving the needs of city managers and policy makers with concrete advice and guidance

## **Smart City - Future City?**

This book investigates the role of smart cities in the broader context of urban innovation and e-government, identifies what a smart city is in practice and highlights their importance to the welfare of society. The book offers specific, measurable, and action-oriented public sector planning and management principles and ideas for smart governance in the era of global urbanization and innovation to help with the challenges in maintaining the democratic system of checks and balances as well as the division of powers in a highly interconnected world. The book will be of interest researchers, practitioners, students, and public sector IT

professionals that work within innovation management, public administration, urban technologies and urban innovation, and public local administration studies.

## **Smart Cities: Issues and Challenges**

This book presents a coherent, novel vision of Smart Cities, built around a value-driven architecture. It describes the limitations of the contemporary notion of the Smart City and argues that the next developmental step must actively include not only the physical infrastructure, but information technology and human infrastructure as well, requiring the intensive integration of technical solutions from the Internet of Things (IoT) and social computing. The book is divided into five major parts, the first of which provides both a general introduction and a coherent vision that ties together all the components that are required to realize the vision for Smart Cities. Part II then discusses the provisioning and governance of Smart City systems and infrastructures. In turn, Part III addresses the core technologies and technological enablers for managing the social component of the Smart City platform. Both parts combine state-of-the-art research with cutting-edge industrial efforts in the respective fields. Lastly, Part IV details a road map to achieving Cyber-Human Smart Cities. Rounding out the coverage, it discusses the concrete technological advances needed to move beyond contemporary Smart Cities and toward the Smart Cities of the future. Overall, the book provides an essential overview of the latest developments in the areas of

IoT and social computing research, and outlines a research roadmap for a closer integration of the two areas in the context of the Smart City. As such, it offers a valuable resource for researchers and graduate students alike.

## **Green and Smart Technologies for Smart Cities**

Key concepts, definitions, examples, and historical contexts for understanding smart cities, along with discussions of both drawbacks and benefits of this approach to urban problems. Over the past ten years, urban planners, technology companies, and governments have promoted smart cities with a somewhat utopian vision of urban life made knowable and manageable through data collection and analysis. Emerging smart cities have become both crucibles and showrooms for the practical application of the Internet of Things, cloud computing, and the integration of big data into everyday life. Are smart cities optimized, sustainable, digitally networked solutions to urban problems? Or are they neoliberal, corporate-controlled, undemocratic non-places? This volume in the MIT Press Essential Knowledge series offers a concise introduction to smart cities, presenting key concepts, definitions, examples, and historical contexts, along with discussions of both the drawbacks and the benefits of this approach to urban life. After reviewing current terminology and justifications employed by technology designers, journalists, and researchers, the book describes three models for smart city development—smart-from-the-

start cities, retrofitted cities, and social cities—and offers examples of each. It covers technologies and methods, including sensors, public wi-fi, big data, and smartphone apps, and discusses how developers conceive of interactions among the built environment, technological and urban infrastructures, citizens, and citizen engagement. Throughout, the author—who has studied smart cities around the world—argues that smart city developers should work more closely with local communities, recognizing their preexisting relationship to urban place and realizing the limits of technological fixes. Smartness is a means to an end: improving the quality of urban life.

## **Understanding Smart Cities: A Tool for Smart Government or an Industrial Trick?**

This book is a critical reflection on the Smart City Mission in India. Drawing on ethnographic data from across Indian cities, this volume assesses the transformative possibilities and limitations of the program. It examines the ten core infrastructural elements that make up a city, including water, electricity, waste, mobility, housing, environment, health, and education, and lays down the basic tenets of urban policy in India. The volume underlines the need to recognize liminal spaces and the plans to make the 'smart city' an inclusive one. The authors also look at maintaining a link between the older heritage of a city and the emerging urban space. This volume will be of great interest to planners, urbanists, and policymakers, as well as scholars and researchers of urban studies and planning, architecture, and

## **From Smart City to Smart Region**

Are you curious about smart cities? You should be! By mid-century, two-thirds of us will live in cities. The world of tomorrow will be a world of cities. But will they be smart cities? Smart cities are complex blends of technologies, systems and services designed and orchestrated to help people lead productive, fulfilling, safe and happy lives. This remarkable book is a window into our shared future. In crisp language and sharp detail, Mike Barlow and Cornelia Lévy-Bencheton explain how smart cities are powerful forces for positive change. With keen eyes and warm hearts, they invite readers to imagine the world of tomorrow, a fascinating world of connected cities and communities. They capture and convey the depth and richness of the worldwide smart city movement. *Smart Cities, Smart Future* describes the impact of smart city projects on people in towns, cities and nations around the world. The book includes descriptions of ongoing smart city projects in North America, Europe, Asia and the Middle East. *Looking Ahead to an Urban World* No two smart cities are alike. No one can say with certainty or precision what the term “smart city” means. There is no standard definition or common template. Today, smart cities are works in progress. They emerge from our hopes and our dreams. This book provides you with the knowledge and insight you need to participate in the smart city movement. It explains how smart cities are “systems of systems” and introduces key concepts

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such as interoperability, open standards, resiliency, agility, adaptability and continuous improvement.

Includes Detailed Glossary of Terms and Essential Vocabulary The book includes a detailed

comprehensive glossary of essential smart city terms.

The glossary will become your indispensable resource as you engage more deeply with the smart city

movement and become more involved in planning our common future in an urban world. Carefully

Researched and Crisply Written Smart Cities, Smart Future is carefully researched and fully documented.

It includes interviews with leaders and experts in multiple disciplines essential to the development of smart cities, towns, regions, states and nations.

Written in the clean style of modern journalism, the book offers a strong and compelling narrative of a

changing world. It reminds us that we are responsible for choosing our destiny and determining the shape of

things to come. The smart city movement is gaining speed and momentum. Read this book, and enjoy the

ride!

## **Sustainable Smart Cities and Smart Villages Research**

This book presents a comprehensive overview of the various aspects for the development of smart cities

from a European perspective. It presents both theoretical concepts as well as empirical studies and

cases of smart city programs and their capacity to create value for citizens. The contributions in this

book are a result of an increasing interest for this topic, supported by both national governments and

international institutions. The book offers a large panorama of the most important aspects of smart cities evolution and implementation. It compares European best practices and analyzes how smart projects and programs in cities could help to improve the quality of life in the urban space and to promote cultural and economic development.

## **Smart Cities**

Smart City Citizenship provides rigorous analysis for academics and policymakers on the experimental, data-driven, and participatory processes of smart cities to help integrate ICT-related social innovation into urban life. Unlike other smart city books that are often edited collections, this book focuses on the business domain, grassroots social innovation, and AI-driven algorithmic and techno-political disruptions, also examining the role of citizens and the democratic governance issues raised from an interdisciplinary perspective. As smart city research is a fast-growing topic of scientific inquiry and evolving rapidly, this book is an ideal reference for a much-needed discussion. The book drives the reader to a better conceptual and applied comprehension of smart city citizenship for democratised hyper-connected-virtualised post-COVID-19 societies. In addition, it provides a whole practical roadmap to build smart city citizenship inclusive and multistakeholder interventions through intertwined chapters of the book. Users will find a book that fills the knowledge gap between the purely critical studies on smart cities and those further constructive and highly promising

socially innovative interventions using case study fieldwork action research empirical evidence drawn from several cities that are advancing and innovating smart city practices from the citizenship perspective. Utilises ongoing, action research fieldwork, comparative case studies for examining current governance issues, and the role of citizens in smart cities. Provides definitions of new key citizenship concepts, along with a techno-political framework and toolkit drawn from a community-oriented perspective. Shows how to design smart city governance initiatives, projects and policies based on applied research from the social innovation perspective. Highlights citizen's perspective and social empowerment in the AI-driven and algorithmic disruptive post-COVID-19 context in both transitional and experimental frameworks

## **Smart City Governance**

This book critically examines 'smart city' discourse in terms of governance initiatives, citizen participation, and policies which place emphasis on the 'citizen' as an active recipient and co-producer of technological solutions to urban problems. The current hype around 'smart cities' and digital technologies has sparked debates in the fields of citizenship, urban studies, and planning surrounding the rights and ethics of participation. It has also sparked debates around the forms of governance these technologies actively foster. This book presents new sociotechnological systems of governance that monitor citizen power, trust-building strategies, and social capital. It calls for

new data economics and digital rights for a city founded on normative ideals rather than neoliberal ones. It adopts a prescriptive approach, arguing that a 'reloaded' smart city should foster citizenship as a new set of civil and social rights and the 'citizen' as a subject vested with active and meaningful forms of participation and political power. Ultimately, the book questions the utility of the 'smart city' project for radical municipalism, proposing a technological enough but more democratic city – an 'intelligent city', in fact. Offering useful contributions to 'smart city' initiatives for the protection of emerging digital citizenship rights and socially accrued benefits, this book will draw the interest of researchers, policymakers, and professionals in the fields of urban studies, urban planning, urban geography, computing and technology studies, urban politics, and urban economics.

## **Smart City in India**

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**

Become empowered to build and maintain smarter cities At its core, a Smart City is a collection of technological responses to the growing demands, challenges, and complexities of improving the quality of life for billions of people now living in urban centers across the world. The movement to create smarter cities is still in its infancy, but ambitious and creative projects in all types of cities—big and small—around the globe are beginning to make a big difference. New ideas, powered by technology, are positively changing how we move humans and products from one place to another; create and distribute energy; manage waste; combat the climate crisis; build more energy efficient buildings; and improve basic city services through digitalization and the smart use of data. Inside this

book you'll find out: What it really means to create smarter cities How our urban environments are being transformed Big ideas for improving the quality of life for communities Guidance on how to create a smart city strategy The essential role of data in building better cities The major new technologies ready to make a difference in every community Smart Cities will give you the knowledge to understand this important topic in depth and be ready to be an agent of change in your community.

## **Smart Cities, Smart Future**

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.

## **Uneven Innovation**

Traces the root of modern, sprawling megacities to advances in information technologies throughout the twentieth century and discusses how these advances can inform and improve the future of human

## **Citizens in the 'Smart City'**

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.

## **Architecture and the Smart City**

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: Issues and Challenges**

### **Smart City**

Examining the changing nature of cities in the face of smart technology, this book studies key new challenges and capabilities defined by the Internet of Things, data science, blockchain and artificial intelligence. It argues that using algorithmic logic alone for automation and optimisation in modern smart cities is not sufficient, and analyses the importance of integrating this with strong participatory governance and digital platforms for community action.

### **The Right to the Smart City**

The concept of a livable smart city presented in this book highlights the relevance of the functionality and integrated resilience of viable cities of the future. It critically examines the progressive digitalization that is taking place and identifies the revolutionized energy sector as the basis of urban life. The concept is based on people and their natural environment, resulting in a broader definition of sustainability and an expanded product theory. Smart City 2.0 offers its residents many opportunities and is an attractive future market for innovative products and services. However, it presents numerous challenges for stakeholders and product developers.

### **Smart Cities: Big Data, Civic Hackers,**

The Routledge Companion to Smart Cities explores the question of what it means for a city to be ‘smart’, raises some of the tensions emerging in smart city developments and considers the implications for future ways of inhabiting and understanding the urban condition. The volume draws together a critical and cross-disciplinary overview of the emerging topic of smart cities and explores it from a range of theoretical and empirical viewpoints. This timely book brings together key thinkers and projects from a wide range of fields and perspectives into one volume to provide a valuable resource that would enable the reader to take their own critical position within the topic. To situate the topic of the smart city for the reader and establish key concepts, the volume sets out the various interpretations and aspects of what constitutes and defines smart cities. It investigates and considers the range of factors that shape the characteristics of smart cities and draws together different disciplinary perspectives. The consideration of what shapes the smart city is explored through discussing three broad ‘parts’ – issues of governance, the nature of urban development and how visions are realised – and includes chapters that draw on empirical studies to frame the discussion with an understanding not just of the nature of the smart city but also how it is studied, understood and reflected upon. The Companion will appeal to academics and advanced undergraduates and postgraduates from across many disciplines including Urban Studies, Geography, Urban Planning, Sociology and

Architecture, by providing state of the art reviews of key themes by leading scholars in the field, arranged under clearly themed sections.

## **The Smart Enough City**

Know how Smart TVs, Smart Cars, Smart Homes, and Smart Cities are changing the World! DESCRIPTION The Internet of Things (IoT) not only connect people but will connect 'smart' homes, appliances, cars, offices, factories, cities, basically the world. This book discusses how smart cities strive to deploy and interconnect infrastructures and services to guarantee that the authorities and citizens have access to reliable and global customized services. The book describes a wide range of topics present in the design, development, and running of smart cities, ranging from big data management, Internet of Things, and sustainable urban planning. The technical aspects of smart cities enabled primarily by the Internet of Things, the socio-economic motivations and impact of smart city development are covered in this book. KEY FEATURES Learn to successfully create, launch and manage the Internet of Things services Know the process of specifying, implementing, and deploying IoT services Learn the fundamentals of IoT services, building blocks and the key factors Learn the fast track approach to IoT Learn a dual perspective on the Internet of Things and ubiquitous computing Know detailed coverage of the underlying architecture, framework and state of the art methodologies WHAT WILL YOU LEARN The purpose of this book is to help you to work with cities and learn to develop them into

smart cities. You will learn to develop a plan and learn what an smart city is, how to plan the smart city infrastructure and from where do you start while developing the smart city. You will learn what kind of planning is involved and about permitting, rent, acquisition, construction planning, with whom should you work? You can learn all this and more from case studies and deployment planning described in the book. WHOM THIS BOOK IS FOR Students studying IoT in universities and who want to know the fundamentals of the IoT business. For business executives and IoT startups. Table of Contents 1. Introduction 2. RFID and WSN: The Beginning 3. Interoperability of IoT Devices and Sensor (Semantic) Web 4. Cloud's Internet of Things (IoT) 5. IoT and Edge Computing 6. IoT - Big Data Convergence with IoT Data 7. Introduction to (Big Data) Internet of Things Analytics and Streams 8. Operability Among IoT Clouds and Semantics 9. Edge and Analytics 10. To Conclude 11. Abbreviation 12. Bibliography

## **Smart Cities For Dummies**

Cut through the hype surrounding Smart Cities. This book looks at the facts on the ground and realities, coming to a more adequate understanding of where technology can and cannot help in a city context, specifically pulling on insights gained from smart city initiatives in New York, Chicago, Amsterdam and Copenhagen. Currently, the concept of Smart Cities is rightfully touted as a transformative power in our lives. The use of Internet of Things, Artificial Intelligence, Big Data and Blockchain are some of the

most hyped technologies that promise to bring about significant changes to how we live and manage our cities. While some isolated solutions have been implemented with great success and impact, the full potential of smart cities have so far not been realized. Practical realities often interfere, bringing initiatives to a screeching halt or stopping them before they even start. By better understanding the practical realities of a city we may be able to better make use of technology to make smarter cities. To that end, this book provides a number of practical guidelines on how to make cities smarter with the aid of technology. You'll also dive into the practical understanding of managing and securing thousands, possibly millions, of devices and the accompanying data. Demystifying Smart Cities evaluates how technology can behave in a more intelligent way and how producing novel solutions can pose problems of their own. What You'll Learn Practical issues and challenges of managing thousands and millions of IoT devices in a city The different types of city data and how to manage and secure it The possibilities of utilizing AI into a city (and how it differs from working with the private sector) Examples of how to make cities smarter with technology Who This Book Is For Primarily for those already familiar with the hype of smart city technologies but not the details of its implementation, along with technologists interested in learning how city government works when integrating technology. Also, people working for smart city vendors, especially sales people and product managers who need to understand their target market.

The city of the future, we are told, is the smart city. By seamlessly integrating information and communication technologies into the provision and management of public services, such cities will enhance opportunity and bolster civic engagement. Smarter cities will bring in new revenue while saving money. They will be more of everything that a twenty-first century urban planner, citizen, and elected official wants: more efficient, more sustainable, and more inclusive. Is this true? In *Uneven Innovation*, Jennifer Clark considers the potential of these emerging technologies as well as their capacity to exacerbate existing inequalities and even produce new ones. She reframes the smart city concept within the trajectory of uneven development of cities and regions, as well as the long history of technocratic solutions to urban policy challenges. Clark argues that urban change driven by the technology sector is following the patterns that have previously led to imbalanced access, opportunities, and outcomes. The tech sector needs the city, yet it exploits and maintains unequal arrangements, embedding labor flexibility and precarity in the built environment. Technology development, *Uneven Innovation* contends, is the easy part; understanding the city and its governance, regulation, access, participation, and representation—all of which are complex and highly localized—is the real challenge. Clark's critique leads to policy prescriptions that present a path toward an alternative future in which smart cities result in more equitable communities.

Globally, Smart Cities initiatives are pursued which reproduce the interests of capital and neoliberal government, rather than wider public good. This book explores smart urbanism and 'the right to the city', examining citizenship, social justice, commoning, civic participation, and co-creation to imagine a different kind of Smart City.

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