Smart Cities Big Data Civic Hackers And The Quest For A New Utopia Anthony M Townsend

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Smart Cities and Smart Spaces: Concepts, Methodologies, Tools, and Applications Elsevier

Innovation is often presented as being in the exclusive domain of the private sector. Yet despite widespread perceptions of public-sector inefficiency, government agencies have much to teach us about how technological and social advances occur. Improving governance at the municipal level is critical to the future of the twenty-first-century city, from environmental sustainability to education, economic development, public health, and beyond. In this age of acceleration and massive migration of people into cities around the world, this book explains how innovation from within city agencies and administrations makes urban systems smarter and shapes life in New York City. Using a series of case studies, Smarter New York City describes the drivers and constraints behind urban innovation, including leadership and organization; networks and interagency collaboration; institutional context; technology and real-time data collection; responsiveness and decision making; and results and impact. Cases include residential organic-waste collection, an NYPD program that identifies the sound of gunshots in real time, and the Vision Zero attempt to end traffic casualties, among others. Challenging the usefulness of a tech-centric view of urban innovation, Smarter New York City brings together a multidisciplinary and integrated perspective to imagine new possibilities from within city agencies, with practical lessons for city officials, urban planners, policy makers, civil society, and potential private-sector partners.

Future Cities National Geographic Books

Do you know that the smart city is here now? Most cities want to be a smart city and they are looking for technology to save them. I once saw a TED talk where they described a smart city as being the way the buildings are built. Let me tell you something, the buildings are constructed in these cities. While it would be wonderful to plan a smart city from scratch, it's not the reality of the cities out there. They intend to improve the existing city infrastructure, which is no easy task. That's the purpose of this book, to help you work with cities and have them develop their smart city initiatives. Develop a plan! That is why I put together the Smart City Tech Planning Handbook. Learn this! What is a Smart City? How do you plan the Smart City infrastructure? Where do you start when developing the smart city? What planning is involved? Whom should I partner with? What about permitting, rent, acquisition, construction planning? Whom should we work with? Learn all this and more from case studied and deployment planning. The rest is up to you!

The Right to the Smart City Elsevier

This book constitutes the proceedings of the 16th IFIP WG 8.5 International Conference on Electronic Government, EGOV 2017, held in St. Petersburg, Russia, in September 2017, in conjunction with the 9th International Conference on eParticipation, ePart 2017. The 34 revised full papers presented were carefully reviewed and selected from 74 submissions. The papers are clustered under the following topical sections: Smart Governance, Government and Cities; Service delivery; Organizational aspects; Infrastructures; Big and Open Linked Data; Open Government; and Evaluation.

The Hackable City Columbia University Press

This book highlights original research and recent advances in various fields related to smart cities and their applications. It gathers papers presented at the Fourth International Conference on Smart City Applications (SCA19), held on October 2 – 4, 2019, in Casablanca, Morocco. Bringing together contributions by prominent researchers from around the globe, the book offers an invaluable instructional and research tool for courses on computer science, electrical engineering, and urban sciences. It is also an excellent reference guide for professionals, researchers, and academics in the field of smart cities. This book covers topics including: · Smart Citizenship · Smart Education · Digital Business and Smart Governance · Smart Health Care · New Generation of Networks and Systems for Smart Cities · Smart Grids and Electrical Engineering · Smart Mobility · Smart Security · Sustainable Building · Sustainable Environment

Electronic Government John Wiley & Sons

This book is intended to help explore the field of smart sustainable cities in its complexity, heterogeneity, and breadth, the many faces of a topical subject of major importance for the future that encompasses so much of modern urban life in an increasingly computerized and urbanized world. Indeed, sustainable urban development is currently at the center of debate in light of several ICT visions becoming achievable and deployable computing

paradigms, and shaping the way cities will evolve in the future and thus tackle complex challenges. This book integrates computer science, data science, complexity science, sustainability science, system thinking, and urban planning and design. As such, it contains innovative computer – based and data – analytic research on smart sustainable cities as complex and dynamic systems. It provides applied theoretical contributions fostering a better understanding of such systems and the synergistic relationships between the underlying physical and informational landscapes. It offers contributions pertaining to the ongoing development of computer – based and data science technologies for the processing, analysis, management, modeling, and simulation of big and context data and the associated applicability to urban systems that will advance different aspects of sustainability. This book seeks to explicitly bring together the smart city and sustainable city endeavors, and to focus on big data analytics and context-aware computing specifically. In doing so, it amalgamates the design concepts and planning principles of sustainable urban forms with the novel applications of ICT of ubiquitous computing to primarily advance sustainability. Its strength lies in combining big data and context – aware technologies and their novel applications for the sheer purpose of harnessing and leveraging the disruptive and synergetic effects of ICT on forms of city planning that are required for future forms of sustainable development. This is because the effects of such technologies reinforce one another as to their efforts for transforming urban life in a sustainable way by integrating data – centric and context – aware solutions for enhancing urban systems and facilitating coordination among urban domains. This timely and comprehensive book is aimed at a wide audience across science, academia industry, and policymaking. It provides the necessary material to inform relevant research communities of the state – of – the – art research and the latest development in the area of smart sustainable urban development, as well as a valuable reference for planners, designers, strategists, and ICT experts who are working towards the development and implementation of smart sustainable cities based on big data analytics and context – aware computing.

Demystifying Smart Cities Roundtree Press

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.

Smart Cities Atlas W. W. Norton & Company

This open access book is the first to systematically introduce the principles of urban informatics and its application to every aspect of the city that involves its functioning, control, management, and future planning. It introduces new models and tools being developed to understand and implement these technologies that enable cities to function more efficiently – to become ‘smart’ and ‘sustainable’. The smart city has quickly emerged as computers have become ever smaller to the point where they can be embedded into the very fabric of the city, as well as being central to new ways in which the population can communicate and act. When cities are wired in this way, they have the potential to become sentient and responsive, generating massive streams of ‘big’ data in real time as well as providing immense opportunities for extracting new forms of urban data through crowdsourcing. This book offers a comprehensive review

of the methods that form the core of urban informatics from various kinds of urban remote sensing to new approaches to machine learning and statistical modelling. It provides a detailed technical introduction to the wide array of tools information scientists need to develop the key urban analytics that are fundamental to learning about the smart city, and it outlines ways in which these tools can be used to inform design and policy so that cities can become more efficient with a greater concern for environment and equity.

The Urban Commons Springer

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.

Smart Cities W. W. Norton & Company

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.

Smart Cities: Big Data, Civic Hackers, and the Quest for a New Utopia John Wiley & Sons

Through voicemail, apps, websites, and Twitter, Boston ' s sophisticated 311 system allows citizens to report potholes, broken streetlights, graffiti, and vandalism that affect everyone ' s quality of life. Drawing on Boston ' s rich data, Daniel T. O ' Brien offers a model of what smart technology can do for cities seeking both growth and sustainability.

Undoing Optimization Harvard University Press

As populations have continued to grow and expand, many people have made their homes in cities around the globe. With this increase in city living, it is becoming vital to create intelligent urban environments that efficiently support this growth and simultaneously provide friendly and progressive environments to both businesses and citizens alike. Smart Cities and Smart Spaces: Concepts, Methodologies, Tools, and Applications is an innovative reference source that discusses social, economic, and environmental issues surrounding the evolution of smart cities. Highlighting a range of topics such as smart destinations, urban planning, and intelligent communities, this multi-volume book is designed for engineers, architects, facility managers, policymakers, academicians, and researchers interested in expanding their knowledge on the emerging trends and topics involving smart cities.

Uneven Innovation John Wiley & Sons

Far from heralding their demise, digital technologies have lead to a dramatic transformation of the public library. Around the world, libraries have reinvented themselves as networked hubs, community centres, innovation labs, and makerspaces. Coupling striking architectural design with attention to ambience and comfort, libraries have signaled their desire to be seen as both engines of innovation and creative production, and hearts of community life. This book argues that the library ' s transformation is deeply connected to a broader project of urban redevelopment and the transition to a knowledge economy. In particular, libraries have become entangled in visions of the smart city, where densely networked, ubiquitous connectivity promises urban prosperity built on efficiency, innovation, and new avenues for civic participation. Drawing on theoretical analysis and interviews with library professionals, policymakers, and users, this book examines the inevitable tensions emerging when a public institution dedicated to universal access to knowledge and a shared public culture intersects with the technology-driven, entrepreneurialist ideals of the smart city.

Smart Cities, Smart Future MIT Press

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 For Dummies 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 Springer

Practical data design tips from a data visualization expert ofthe modern age Data doesn?t decrease; it is ever-increasing and can beoverwhelming to organize in a way that makes sense to its intendedaudience. Wouldn?t it be wonderful if we could actually visualizedata in such a way that we could maximize its potential and tell astory in a clear, concise manner? Thanks to the creative genius ofNathan Yau, we can. With this full-color book, data visualizationguru and author Nathan Yau uses step-by-step tutorials to show youhow to visualize and tell stories with data. He explains how togather, parse, and format data and then design high qualitygraphics that help you explore and present patterns, outliers, andrelationships. Presents a unique approach to visualizing and telling storieswith data, from a data visualization expert and the creator offlowingdata.com, Nathan Yau Offers step-by-step tutorials and practical design tips forcreating statistical graphics, geographical maps, and informationdesign to find meaning in the numbers Details tools that can be used to visualize data-nativegraphics for the Web, such as ActionScript, Flash libraries, PHP,and JavaScript and tools to design graphics for print, such as Rand Illustrator Contains numerous examples and descriptions of patterns andoutliers and explains how to show them Visualize This demonstrates how to explain data visually so thatyou can present your information in a way that is easy tounderstand and appealing.

Innovations in Smart Cities Applications Edition 3 John Wiley & Sons

A unique examination of the civic use, regulation, and politics of communication and data technologies City life has been reconfigured by our use--and our expectations--of communication, data, and sensing technologies. This book examines the civic use, regulation, and politics of these technologies, looking at how governments, planners, citizens, and activists expect them to enhance life in the city. Alison Powell argues that the de facto forms of citizenship that emerge in relation to these technologies represent sites of

contention over how governance and civic power should operate. These become more significant in an increasingly urbanized and polarized world facing new struggles over local participation and engagement. The author moves past the usual discussion of top-down versus bottom-up civic action and instead explains how citizenship shifts in response to technological change and particularly in response to issues related to pervasive sensing, big data, and surveillance in "smart cities."

Smart Cities and Connected Intelligence Apress

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.

Solving Urban Infrastructure Problems Using Smart City Technologies W. W. Norton & Company

Leveraging Big Data and 21st century technology to renew cities and citizenship in America The Responsive City is a guide to civic engagement and governance in the digital age that will help leaders link important breakthroughs in technology and data analytics with age-old lessons of small-group community input to create more agile, competitive, and economically resilient cities. Featuring vivid case studies highlighting the work of pioneers in New York, Boston, Chicago and more, the book provides a compelling model for the future of governance. The book will help mayors, chief technology officers, city administrators, agency directors, civic groups and nonprofit leaders break out of current paradigms to collectively address civic problems. The Responsive City is the culmination of research originating from the Data-Smart City Solutions initiative, an ongoing project at Harvard Kennedy School working to catalyze adoption of data projects on the city level. The book is co-authored by Professor Stephen Goldsmith, director of Data-Smart City Solutions at Harvard Kennedy School, and Professor Susan Crawford, co-director of Harvard's Berkman Center for Internet and Society. Former New York City Mayor Michael Bloomberg penned the book ' s foreword. Based on the authors ' experiences and extensive research, The Responsive City explores topics including:

Building trust in the public sector and fostering a sustained, collective voice among communities; Using data-smart governance to preempt and predict problems while improving quality of life; Creating efficiencies and saving taxpayer money with digital tools; and Spearheading these new approaches to government with innovative leadership.

Ghost Road: Beyond the Driverless Car Columbia University Press

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, Digital Nations Smart Cities: Big Data, Civic Hackers, and the Quest for a New Utopia Twenty-first century life, for most people, will be an urban experience. As millions migrate to cities in search of opportunity and connection, our conception of how a city runs, uses resources and manages public services must change. The city itself must be reimagined as a matrix of functions and information, with digitized networks harnessing and multiplying the power of data. This is not the future; this is today. Caspar Herzberg explains how ambitious new city plans across the world are moving from the drawing board into reality. As a top Cisco consultant, he participated in groundbreaking projects in South Korea, Saudi Arabia, India, China and many other countries. In Smart Cities, Digital Nations, he recounts the origins of seminal digital city-building projects, including Songdo, South Korea the Delhi-Mumbai Industrial Corridor and Saudi Arabia's King Abdullah Economic City, and explains how these early attempts have provided the groundwork for city planning efforts across the globe. Importantly, Herzberg moves beyond theory and discusses the delicate alliances between tech companies, city planners, municipal and national bureaucracies and citizen groups that undergird successful urban development. And while tech companies do not have all the answers, he explains their multifaceted contributions as absolutely necessary to the smart, forward-thinking digital infrastructure being created today. While recognizing the immense challenges of both engineering and consensus among diverse stakeholders, Smart Cities, Digital Nations makes clear that digital cities are essential to the future prosperity of many developing countries, and to the continuing vitality of the West. This is a unique perspective on the recent past, present and future of the modern city, a guide through its challenges and a vision of its success.

Against the Smart City Springer

A penetrating look at near-future disruption as truly autonomous vehicles arrive. For decades we have dreamed of building an automobile that can drive itself.

But as that dream of autonomy draws close, we are discovering that the driverless car is a red herring. When self-driving technology infects buses, bikes, delivery vans, and even buildings···a wild, woollier, future awaits. Technology will transform life behind the wheel into a high-def video game that makes our ride safer, smoother, and more efficient. Meanwhile, autonomous vehicles will turbocharge our appetite for the instant delivery of goods, making the future as much about moving things as it is about moving people. Giant corporations will link the automated machines that move us to the cloud, raising concerns about mobility monopolies and privatization of streets and sidewalks. The pace of our daily lives and the fabric of our cities and towns will change dramatically as automated vehicles reprogram the way we work, shop, and play. Ghost Road is both a beacon and a warning; it explains where we might be headed together in driverless vehicles, and the choices we must make as societies and individuals to shape that future.