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# Smart City Expo World Congress

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Untangling Smart Cities

It's Logical

Internet of Things for Smart Cities

From Theory to Practice

Architecture and the Smart City

Participation, Co-production, Governance

Showcasing Tomorrow

Implementing Data-Driven Strategies in Smart Cities

Smart Cities in the Post-algorithmic Era

Maker City

Smart Cities, Smart Future

The Smart City in a Digital World

A World of Three Zeros

Reimagining Businesses with AI

The New Economics of Zero Poverty, Zero Unemployment, and Zero Net Carbon

Emissions

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Volume 1

Human Smart Cities

Sustainable and Smart Spatial Planning in Africa

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4th International Conference, SMARTGREENS 2015, and 1st International Conference

VEHITS 2015, Lisbon, Portugal, May 20-22, 2015, Revised Selected Papers

Proceedings of the 2nd International Conference on Building Innovations

Smart Cities and Innovative Urban Technologies

How City Agencies Innovate

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From Smart City to Smart Region

Securing IoT in Industry 4.0 Applications with Blockchain

Putting Technology in Its Place to Reclaim Our Urban Future

Digital Services for an Internet of Places

Creating Spaces for Technological, Social and Business Development

The Smart Enough City

Rethinking the Interplay between Design and Planning

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### **Untangling Smart Cities** CRC Press

This book presents a selection of papers from the 2017 World Conference on Information Systems and Technologies (WorldCIST'17), held between the 11st and 13th of April 2017 at Porto Santo Island, Madeira, Portugal. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges involved in modern Information Systems and Technologies research, together with technological developments and applications. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Software and Systems Modeling; Software Systems, Architectures, Applications and Tools; Multimedia Systems and Applications; Computer Networks, Mobility and Pervasive Systems; Intelligent and Decision Support Systems; Big Data Analytics and Applications; Human-Computer Interaction; Ethics, Computers & Security; Health Informatics; Information Technologies in Education; and Information Technologies in Radiocommunications.

*It's Logical* Springer

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. *Internet of Things for Smart Cities* Springer

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.

From Theory to Practice Routledge  
 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

*Architecture and the Smart City* Springer

This book gathers the latest advances, innovations, and applications in the field of building design and construction, by focusing on new design solutions for buildings and new technologies creation for construction, as presented by researchers and engineers at the 2nd International Conference Building Innovations (ICBI), held in Poltava - Baku, Ukraine - Azerbaijan, on May 23-24, 2019. It covers highly diverse topics, including structures operation, repairing and thermal modernization in existing buildings and urban planning features, machines and mechanisms for construction, as well as efficient economy and energy conservation issues in construction. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting

ideas that will spur novel research directions and foster multidisciplinary collaborations.

**Participation, Co-production, Governance** Springer

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.

**Showcasing Tomorrow** CRC Press

This book discusses the various aspects of smart cities and their architecture along with the application of the latest technologies, including the Internet of Things (IoT) and artificial intelligence (AI). The concept of smart cities, their development, technological advancements, and issues related to them are discussed in detail. *Smart Cities: Concepts, Practices, and Applications* covers numerous topics, including energy utilities and the role of renewable energy for sustainable development, intelligent transport systems, traffic management, sewage and waste management, the impact of smart city development on the social and economic aspects of life, flexible communication technologies utilized in the development of smart cities, e-governance challenges, and implementation in smart cities.

**FEATURES** Discusses the basic architecture of a smart city and its development concept Covers the application of IoT and AI in the development of smart cities Examines the impact of smart city development on

social and economic aspects Presents comprehensively intelligent transport systems and traffic management This book will be useful for senior undergraduate and graduate students and professionals in electrical engineering, electronics and communication engineering, computer science, and civil engineering.

*Implementing Data-Driven Strategies in Smart Cities* Elsevier

*Smart Cities and Artificial Intelligence* offers a comprehensive view of how cities are evolving as smart ecosystems through the convergence of technologies incorporating machine learning and neural network capabilities, geospatial intelligence, data analytics & visualization, sensors, and smart connected objects to name a few. These recent advances in AI move us closer to developing operating systems that simulate human, machine, and environmental patterns from transportation infrastructure to communication networks. Understanding cities as real-time, living, dynamic systems coupled with new tools including generative design allows readers to plan, manage, and optimize city operations, making cities more efficient and sustainable with the ultimate goal of becoming self-regulating. *Smart Cities and Artificial Intelligence* provides a transdisciplinary, integrated approach, using theoretical and applied insights to examine how the digital and physical worlds are converging and how a new combination of human and machine intelligence is capable of transforming the experience of the urban environment. It provides a fresh holistic perspective on smart cities through an interconnect stream of theory, methodology, system architecture, and the application of

Smart City Functions to define an integrated process of the design, planning, and implementation of smart cities.

### **Smart Cities in the Post-algorithmic Era** Routledge

Within the most recent discussion on smart cities and the way this vision is affecting urban changes and dynamics, this book explores the interplay between planning and design both at the level of the design and planning domains' theories and practices. Urban transformation is widely recognized as a complex phenomenon, rich in uncertainty. It is the unpredictable consequence of complex interplay between urban forces (both top-down or bottom-up), urban resources (spatial, social, economic and infrastructural as well as political or cognitive) and transformation opportunities (endogenous or exogenous). The recent attention to Urban Living Lab and Smart City initiatives is disclosing a promising bridge between the micro-scale environments, with the dynamics of such forces and resources, and the urban governance mechanisms. This bridge is represented by those urban collaborative environments, where processes of smart service co-design take place through dialogic interaction with and among citizens within a situated and cultural-specific frame.

*Maker City* MIT Press

This volume provides the most current research on smart cities. Specifically, it focuses on the economic development and sustainability of smart cities and examines how to transform older industrial cities into sustainable smart cities. It aims to identify the role of the following elements in the creation and management of smart cities: • Citizen participation and empowerment • Value

creation mechanisms • Public administration • Quality of life and sustainability • Democracy • ICT • Private initiatives and entrepreneurship  
Regardless of their size, all cities are ultimately agglomerations of people and institutions. Agglomeration economies make it possible to attain minimum efficiencies of scale in the organization and delivery of services. However, the economic benefits do not constitute the main advantage of a city. A city's status rests on three dimensions: (1) political impetus, which is the result of citizens' participation and the public administration's agenda; (2) applications derived from technological advances (especially in ICT); and (3) cooperation between public and private initiatives in business development and entrepreneurship. These three dimensions determine which resources are necessary to create smart cities. But a smart city, ideal in the way it channels and resolves technological, social and economic-growth issues, requires many additional elements to function at a high-performance level, such as culture (an environment that empowers and engages citizens) and physical infrastructure designed to foster competition and collaboration, encourage new ideas and actions, and set the stage for new business creation. Featuring contributions with models, tools and cases from around the world, this book will be a valuable resource for researchers, students, academics, professionals and policymakers interested in smart cities.

Smart Cities, Smart Future Columbia University Press

This book clarifies the smart city concept that is gaining application in Sub-Saharan Africa. It shows how the smart concept can be used to address

problems that would be difficult and more expensive to solve using traditional techniques such as employment creation. This is done through elaboration of the African interpretation of smartness, using tools for smart solid waste management, e-governance, smart energy, and smart infrastructure. The case studies selected, and each chapter explain a different dimension of the smart city concept and offer innovative solutions to problems of rapid urbanization. It lays the theoretical foundation for further research on smart cities and rural areas in Africa.

The Smart City in a Digital World Actar  
A winner of the Nobel Peace Prize and bestselling author of *Banker to the Poor* offers his vision of an emerging new economic system that can save humankind and the planet Muhammad Yunus, who created microcredit, invented social business, and earned a Nobel Peace Prize for his work in alleviating poverty, is one of today's most trenchant social critics. Now he declares it's time to admit that the capitalist engine is broken--that in its current form it inevitably leads to rampant inequality, massive unemployment, and environmental destruction. We need a new economic system that unleashes altruism as a creative force just as powerful as self-interest. Is this a pipe dream? Not at all. In the last decade, thousands of people and organizations have already embraced Yunus's vision of a new form of capitalism, launching innovative social businesses designed to serve human needs rather than accumulate wealth. They are bringing solar energy to millions of homes in Bangladesh; turning thousands of unemployed young people into entrepreneurs through equity investments; financing female-owned

businesses in cities across the United States; bringing mobility, shelter, and other services to the rural poor in France; and creating a global support network to help young entrepreneurs launch their start-ups. In *A World of Three Zeros*, Yunus describes the new civilization emerging from the economic experiments his work has helped to inspire. He explains how global companies like McCain, Renault, Essilor, and Danone got involved with this new economic model through their own social action groups, describes the ingenious new financial tools now funding social businesses, and sketches the legal and regulatory changes needed to jumpstart the next wave of socially driven innovations. And he invites young people, business and political leaders, and ordinary citizens to join the movement and help create the better world we all dream of.

*A World of Three Zeros* Springer  
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.

#### **Reimagining Businesses with AI**

SAGE Publishing India

Urban Resilience for Risk and Adaptation Governance Theory and Practice Springer  
*The New Economics of Zero Poverty, Zero Unemployment, and Zero Net Carbon Emissions* CRC Press

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.

#### **Technological Innovation, Ethics and Inclusiveness**

Emerald Group Publishing

This book challenges the concept of ‘urban resilience’ by exploring its impact and limitations in three cities. Resilience has become a buzzword in science, industry and policy, and this volume offers a fresh perspective on urban resilience as a regulatory and constitutive principle of governance in cities. Cities constitute an extremely relevant playground for resilience, as they are exposed to various disruptions from natural disasters and pandemics to political conflicts and terrorism. This book traces the evolution of urban resilience, from international development organizations to local governments and communities. It explores how this concept was adopted and mobilized by different actors for different purposes, and analyses the

resulting resilience momentum in Barcelona, San Francisco, and Santiago. The book outlines the extent to which resilience has become a universal policy tool and a desired end-state, despite its clearly problematic definition. It also contributes to the discussion about contemporary governance, safety and security in times when their very nature and feasibility are being questioned. This book will be of much interest to students of resilience studies, urban studies, development studies, human geography, and International Relations.

#### Concepts, Practices, and Applications

##### The Business Year

Discover what AI can do for your business with this approachable and comprehensive resource *Reimagining Businesses with AI* acquaints readers with both the business challenges and opportunities presented by the rapid growth and progress of artificial intelligence. The accomplished authors and digital executives of the book provide you with a multi-industry approach to understanding the intersection of AI and business. The book walks you through the process of recognizing and capitalizing on AI's potential for your own business. The authors describe: How to build a technological foundation that allows for the rapid implementation of artificial intelligence How to manage the disruptive nature of powerful technology while simultaneously harnessing its capabilities The ethical implications and security and privacy concerns raised by the spread of AI Perfect for business executives and managers who seek a jargon-free and approachable manual on how to implement artificial intelligence in everyday operations, *Reimagining Businesses with AI* also belongs on the bookshelves of anyone curious about the

interaction between artificial intelligence and business.

##### **Volume 1** Springer Nature

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.

##### **Human Smart Cities** Elsevier

There has been much attention paid to the idea of Smart Cities as researchers have sought to define and characterize the main aspects of the concept, including the role of creative industries in urban growth, the importance of social capital in urban development, and the role of urban sustainability. This book develops a critical view of the Smart City concept, the incentives and role of governments in promoting the development of Smart Cities and the analysis of experiences of e-government projects addressed to enhance Smart Cities. This book further analyzes the perceptions of stakeholders, such as public managers or politicians, regarding the incentives and role of governments in Smart Cities and the critical analysis of e-government projects to promote Smart Cities' development, making the book valuable to academics, researchers, policy-makers, public managers, international organizations and technical experts in understanding the role of government to enhance Smart Cities' projects.

##### **Sustainable and Smart Spatial Planning in Africa** MIT Press

In 1867 Ildefons Cerdà published his *Teoria general de la urbanització*. In this text, the *science of building cities*,



understood as a phenomenon, became a new discipline with a broad economic, social and cultural impact on the life of the people of the city. Coinciding with 150 years since its publication, its first translation into English is being presented along with the publishing

online urbanization.org with the statistics transformed into interactive graphics and open data, with the aim of expanding the knowledge of Cerdà's work and encouraging debate on the process of 'urbanization' in the future.

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