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Handbook of Research on Social, Economic, and Environmental Sustainability in the
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*Smart Cities for Technological and Social
Innovation* Springer Nature
This book presents fundamental and

applied research aimed at the development of smart cities across India. Based on the exploration of an extensive array of multidisciplinary literature, this book discusses critical factors of smart city initiatives: management and organization, technology, governance, policy, people and communities, economy, infrastructure, and natural

environment. These factors are broadly covered under the integrative framework of the book to examine the vision and challenges of smart city initiatives. The book suggests directions and agendas for smart city research and outlines practical implications for government professionals, students, research scholars and policy makers. A lot of work is happening on smart cities as it is an upcoming area of research and development. At international level, and even in India, the concept of smart cities concept is a hot topic at universities, research centers, ministries, transport departments, civic bodies, environment, energy and disaster organizations, town planners and policy makers. This book provides ideas and information to government officials, investors, experts

and research students.

Advances in the Leading Paradigms of Urbanism and their Amalgamation

Springer Nature

Smart Environment for Smart Cities Springer

Artificial Intelligence Perspective for Smart Cities Linköping University

Electronic Press

This book aims to establish a community with attention to land use to achieve sustainable development and meet the needs of today's society. Urban planning depends on engineering, architectural, social and political pillars. It pursues this by proposing solutions, regulating environmental pollution and non-sustainable use of available resources. It showcases and even triggers further debate about connections between

sustainable development, urban planning and technology in hopes of achieving sustainable development models that sustain urban expansion and shape cities that improve the overall quality of life. It views urban planning and development as vital fields that ensure the application of revolutionary approaches with new materials and processes incorporated in the most efficient manner.

Smart City MDPI

As population growth accelerates, researchers and professionals face challenges as they attempt to plan for the future. Urban planning is a significant component in addressing the key concerns as the world population moves towards the city and leaves the rural environment behind, yet there are

many factors to consider for a well rounded community. The Handbook of Research on Social, Economic, and Environmental Sustainability in the Development of Smart Cities brings together the necessary research and interdisciplinary discussion to address dilemmas created by population growth and the expansion of urban environments. This publication is an essential reference source for researchers, academicians, investors, and practitioners interested in the urban planning and technological advancements necessary for the creation of smart cities.

Resilient and Responsible Smart Cities

John Wiley & Sons

The purpose of this study is to analyse the city of Voznesensk by using the Key

Performance Indicators (KPIs) for Smart Sustainable Cities and support the municipality in setting priorities for action. The KPIs have been developed by the UNECE with the International Telecommunication Union (ITU) and 14 other UN bodies, as well as other partners in the global United for Smart Sustainable Cities (U4SSC) initiative. In 2016, the Ukrainian Ministry of Regional Development, Construction and Housing and Communal Services appointed Voznesensk as their pilot city for the United Smart Cities programme and requested the UNECE to prepare a Smart Sustainable Cities Profile. The UNECE together with the United Nations Development Programme and a team of international and local experts developed this Profile for Voznesensk

based on a research mission and stakeholders' consultation which took place in Kyiv and Voznesensk in December 2017. This summary provides an overview of the city's situation, the analysis of its economic, environmental and socio-cultural indicators and policy recommendations.

Advanced Studies in Efficient Environmental Design and City Planning Elsevier

The concept of a "smart city" is used widely in general; however, it is hard to explain because of the complexity and multidimensionality of this notion. However, the essential qualification for being a smart city is to achieve "sustainable social, environmental, and economic development" and boost the living standards of society based on

Information and Communication Technology (ICT) and Artificial intelligence (AI). AI in smart cities has become an important aspect for cities that face great challenges to make smart decisions for social well-being, particularly cybersecurity and corporate sustainability. In this context, we aim to contribute literature with a value-added approach where various AI applications of smart cities are discussed from a different perspective. First, we start by discussing the conceptual design, modeling, and determination of components for the sustainability of a smart city structure. Since smart cities operate on spatial-based data, it is important to design, operate, and manage smart city elements using Geographical Information Systems (GIS)

technologies. Second, we define the structure, type, unit, and functionality of the layers to be placed on the GIS to achieve best practices based on Industry 4.0 components. Transportation is one of the key indicators of smart cities, so it is critical to make transportation in smart cities accessible for different disabled groups by using AI technologies. Third, we demonstrate what kinds of technologies should be used for which disabled groups in different transportation vehicles with specific examples. Finally, we create a discussion platform for processes and sub-processes such as waste management, emergency management, risk management, and data management for establishing smart cities including the financial and ethical aspects.

Creating Smart Cities Elsevier

This book discusses the design and practice of environmental resources management for smart cities. Presenting numerous city case studies, it focuses on one specific environmental resource in each city. Environmental resources are commonly owned properties that require active inputs from the government and the people, and in any smart city their management calls for a synchronous combination of e-democracy, e-governance and IOT (Internet of Things) systems in a 24/7 framework. Smart environmental resources management uses information and communication technologies, the Internet of Things, internet of governance (e-governance) and internet of people (e-democracy) along with conventional resource

management tools to achieve coordinated, effective and efficient management, development, and conservation that equitably improves ecological and economic welfare, without compromising the sustainability of development ecosystems and stakeholders.

Smart Environment for Smart Cities

UNESCO Publishing

Rethinking urban development strategies in the era of fourth industrial revolution / Camilla Ween -- The interaction between resilience and intelligence of cities / Parisa Kloss -- Urban food : sustainability and resilience in high-tech cities / Emma Burnnet -- Sustainable food : the role of digital agri-technology / Toby Mottram -- Is this architecture sustainable? Operational

energy efficiency and the pursuit of behavioral change through building operation / Adam Jones and Negin Minaei -- City as an asset : algorithmic planning in sidewalk Toronto / Anna Artyushina -- Smart cities and futuristic transport and logistics : safety and privacy / Negin Minaei.

Cities for Smart Environmental and Energy Futures Springer

This book includes nine chapters presenting the outcome of research projects relevant to building, cities, and construction. A description of a smart city and the journey from conventional to smart cities is discussed at the beginning of the book. Innovative case studies of underground cities and floating city bridges are presented in this book. BIM and GIS applications on

different projects, and the concept of intelligent contract and virtual reality are discussed. Two concepts relevant to conventional buildings including private open spaces and place attachments are also included, and these topics can be upgraded in the future by smart technologies.

Advances in Smart Cities Springer

The United Nations included sustainable cities and communities in its 2030 SDGs. Cities and, on a smaller scale, neighborhoods, building managers and firms are now adopting technologies and information systems to help achieve the energy, economic, social and environmental transition. This volume gathers contributions on the key organizational success factors for this transition. To do so, it analyzes the role

of information systems, use of data, and technological assistance solutions from multiple perspectives. The goal is to develop a framework that can successfully apply information systems to organizational and environmental issues for smart cities and smart buildings. Accordingly, the book addresses living-lab experiment evaluation techniques, and provides critical analyses of the role of the environment, context and users' behavioral responses. In addition, it discusses key questions on the efficient management of resources, need for appropriate IT solutions, and employing co-creation with users to improve planning and organization.

Smart Cities and Construction Technologies IGI Global

This book focuses on how to maintain environmental sustainability as one of its main principles, and it addresses how smart cities serve to diminish wastes and maintain natural resources by having clean green energy that is operated by new smart technology designs. Living in a smart city is not something of the future anymore, it is here, and it is being implemented all over the world. A smart city uses different types of electronic Internet of things (IoT) sensors to collect data and then use these data to manage assets and resources efficiently. The smart city concept integrates information and communication technology (ICT), and various physical devices connected to the IoT network to optimize the efficiency of city operations and services

and achieve sustainable solutions to allow us to grow with proper management of our resources. Smart sustainable structures and infrastructures face the need of urban areas due to the growth of populations while in the same time save our environment. To achieve this, we need to revisit the conventional methods in design and construction and the conventional materials which are used now to optimize the design and provide smart solutions. In the past few years, the consumption of resources has been massive, and the waste produced from that consumption has been inconceivable. This is causing environmental degradation, which produces many environmental challenges, such as global climate

change, excessive fossil fuel dependency and the growing demand for energy. As well as, discussing the challenges facing the civil engineering design and construction of smart cities components and presenting concepts and insight from experts and researchers from different civil engineering disciplines., this book explains how to construct buildings and special structures and how to manage and monitor energy.

Smart City Emergence Springer Nature
The idea of smart cities has become enormously popular during the past decade. Environmental governance is one issue in which smart city ideas seem to hold potential. However, there is an incredible variety in what it means for a city to be 'smart'. For some, it involves

the use of information and communication technology (ICT) to solve problems; for others, it has more to do with economic growth and city branding. Many social science researchers have criticised the idea of smart cities. They worry that it might allow multinational corporations to take control of municipal governance and lead to an undue focus on technological solutions to societal issues. However, only a few previous studies have examined the influence on urban environmental governance in practice. This thesis investigates the influence of smart city ideas on urban environmental governance through a study of Hyllie, a climate-smart city district in Malmö, Sweden. It applies a theoretical perspective based on science and technology studies and the concept

of assemblage. It combines participant-observation of inter-organisational meetings, interviews with professionals and document analysis. This thesis contributes a more comprehensive picture of which actors influence the direction of the climate-smart city—beyond the usual suspects of municipal governments and multinational companies. Still, it shows how ICT-based smart city solutions have taken precedence in urban environmental governance at the expense of energy efficiency and renewable energy. Smarta städer har blivit oerhört populärt koncept under det senaste decenniet. Miljöstyrning är ett område där smarta städer visar potential. Det finns dock många tolkningar av vad ordet 'smart' betyder

för städer. För vissa handlar det om tillämpning av informations- och kommunikationsteknik (IKT) för att lösa problem, för andra om ekonomisk tillväxt och marknadsföring av städer. Många samhällsvetenskapliga forskare kritiserar föreställningen om den smarta staden. De bekymrar sig över att multinationella företag tillåts ta makt över miljöstyrning och ett alltför stort fokus på teknologiska lösningar för samhällsfrågor. Få tidigare studier har undersökt påverkan på miljöstyrning i praktiken. Avhandlingen utforskar hur föreställningar om smarta städer påverkar miljöstyrning genom en studie av Hyllie, en klimatsmart stadsdel i Malmö. Den tillämpar ett teoretiskt perspektiv som bygger på teknik- och vetenskapsstudier samt begreppet assemblage. I avhandlingen används

deltagande-observation av möten mellan olika organisationer, intervjuer med professionella och dokumentanalys. Avhandlingen bidrar med en mer mångsidig bild av vilka aktörer som påverkar utvecklingen av den klimatsmarta staden, utöver kommuner och multinationella företag. Den visar dock även att IKT-lösningar i den smarta staden blir viktigare i städernas miljöstyrning på bekostnad av energieffektivitet och förnybar energi. *Smart and Sustainable Planning for Cities and Regions* Springer
Smart cities promise to generate economic, social and environmental value through the seamless connection of urban services and infrastructure by digital technologies. However, there is scant evidence of how these activities

can enhance social well-being and contribute to just and equitable communities. *Smart and Sustainable Cities? Pipedreams, Practicalities and Possibilities* provides one of the first examinations of how smart cities relate to environmental and social issues. It addresses the gap between the ambitious visions of smart cities and the actual practices on the ground by focusing on the social and environmental dimensions of real smart city initiatives as well as the possibilities they hold for creating more equitable and progressive cities. Through detailed analyses of case studies in the United States, Australia, the United Kingdom, Japan, Germany, India and China, the contributors describe the various ways that social and environmental issues are

interpreted and integrated into smart city initiatives and actions. The findings point towards the need for more intentional engagement and collaboration with all urban stakeholders in the design, development and maintenance of smart cities to ensure that everyone benefits from the increasingly digitalised urban environments of the twenty-first century. The chapters in this book were originally published as a special issue of the journal *Local Environment*. *Smart and Sustainable Cities?* Springer 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.

Design and Construction of Smart Cities Elsevier

This book features cutting-edge research presented at the second international conference on Artificial Intelligence in Renewable Energetic Systems, IC-AIRES2018, held on 24–26 November 2018, at the High School of Commerce, ESC-Koléa in Tipaza, Algeria. Today, the fundamental challenge of integrating renewable energies into the design of smart cities is more relevant than ever. While based on the advent of big data and the use of information and communication technologies, smart cities must now respond to cross-cutting

issues involving urban development, energy and environmental constraints; further, these cities must also explore how they can integrate more sustainable energies. Sustainable energies are a major determinant of smart cities' longevity. From an environmental and technological standpoint, these energies offer an optimal power supply to the electric network while creating significantly less pollution. This requires flexibility, i.e., the availability of supply and demand. The end goal of any smart city is to improve the quality of life for all citizens (both in the city and in the countryside) in a way that is sustainable and respectful of the environment. This book encourages the reader to engage in the preservation of our environment, every moment, every day, so as to help

build a clean and healthy future, and to think of the future generations who will one day inherit our planet. Further, it equips those whose work involves energy systems and those engaged in modelling artificial intelligence to combine their expertise for the benefit of the scientific community and humanity as a whole.

Smart Cities BoD - Books on Demand

This book explores the recent advances in the leading paradigms of urbanism, namely compact cities, eco-cities, and data-driven smart cities, and the evolving approach to their amalgamation under the umbrella term of smart sustainable cities. It addresses these advances by investigating how and to what extent the strategies of compact cities and eco-cities and their merger

have been enhanced and strengthened through new planning and development practices, and are being supported and leveraged by the applied solutions pertaining to data-driven smart cities. The ultimate goal is to advance sustainability and harness its synergistic effects on multiple scales. This entails developing and implementing more effective approaches to the balanced integration of the three dimensions of sustainability, as well as to producing combined effects of the strategies and solutions of the prevailing approaches to urbanism that are greater than the sum of their separate effects in terms of the tripartite value of sustainability. Sustainable urban development is today seen as one of the keys towards unlocking the quest for a sustainable

world. And the big data revolution is set to erupt in cities throughout the world, heralding an era where instrumentation, datafication, and computation are increasingly pervading the very fabric of cities and the spaces we live in thanks to the IoT. Big data and the IoT technologies are seen as powerful forces that have tremendous potential for advancing urban sustainability. Indeed, they are instigating a massive change in the way sustainable cities can tackle the kind of special conundrums, wicked problems, and significant challenges they inherently embody as complex systems. They offer a multitudinous array of innovative solutions and sophisticated approaches informed by groundbreaking research and data-driven science. As such, they are

becoming essential to the functioning of sustainable cities. Besides, yet knowing to what extent we are making progress towards sustainable cities is problematic, adding to the fragmented, conflicting picture that arises of change on the ground in the face of the escalating rate and scale of urbanization and in the light of emerging ICT and its novel applications. In a nutshell, new circumstances require new responses. This timely and multifaceted book is intended for a wide readership. As such, it will appeal to researchers, academics, urban scientists, urbanists, planners, designers, policy-makers, and futurists, as well as all readers interested in sustainable cities and their ongoing and future data-driven transformation.

Organizing Smart Buildings and

Cities Springer

This is an edited book based on the selected submissions made to the conference titled "International Conference in Smart Cities". The project provides an innovative and new approach to holistic management of cities physical, socio-economic, environmental, transportation and political assets across all domains, typically supported by ICT and open data.

Sustainable Smart Cities and Territories Routledge

The concept of smart cities offers a revolutionary vision of urban design for sustainability. Utilizing the intelligent application of new technologies, smart cities also incorporate considerations of social and environmental capital in order

to transform the life and work of cities. This book brings together papers from leading international experts on the transition to smart cities. Drawing upon the experiences of cities in the USA, Canada and Europe, the authors describe the definitional components, critical insights and institutional means by which we can achieve truly smart cities. The resulting volume will be of interest to all involved in urban planning, architecture and engineering, as well as all interested in urban sustainability. This book was published as a special issue of Intelligent Buildings International. [From Intelligent to Smart Cities](#) Springer 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 and Sustainable Cities and Buildings Springer Nature
 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.

Best Sellers - Books :

- [The Body Keeps The Score: Brain, Mind, And Body In The Healing Of Trauma By Bessel Van Der Kolk M.d.](#)
- [A Soul Of Ash And Blood: A Blood And Ash Novel \(blood And Ash Series\) By Jennifer L. Armentrout](#)
- [Never Lie: An Addictive Psychological Thriller By Freida Mcfadden](#)
- [Meditations: A New Translation By Marcus Aurelius](#)
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