
Smart Villages And Smart Cities

Nptel

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Routledge Handbook of Energy Communities and Smart Cities

Smart Cities Unbundled Infrastructure for Smart Villages

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Smart Living for Smart Cities Emerald Group Publishing

It only takes one great idea to change the lives of 3.4 billion people. That idea is the Smart Village. For people in many parts of the world, removing the barriers holding back their potential doesn't require massive investment in infrastructure; it often requires little more than spreading knowledge and information. When you design innovations the right way, they fuel scalable and sustainable transformation for the economy and environment. People's lives are dramatically changed for the better and forever. The rural villages become Smart Villages in the Smart Village Movement. These villages can very quickly become new realities that unlock undreamed of possibilities for the more than 3.4 billion people around the world. The Road to Mori is the beginning of this journey. Mori, India is the village in

South India where Solomon Darwin was born an untouchable. The book follows Solomon as he comes to America and, with drive, perseverance and persistence, moves from his more than humble beginnings to success. First in the corporate world, and then academia as the Executive director of the Haas School of Innovation UC Berkeley. The book is a record of his thoughts about what the idea of a Smart Village, and how it could become a reality. The story chronicles his return to Mori, India -- where he was born an untouchable -- to transform it from a struggling rural community to the first Smart Village in the world. A village where the villager's lives and happiness have been dramatically improved in ways that were previously unimaginable. A village that has become a beacon of hope for struggling rural villages and the 3.4 billion people all over the world.
Digital Twins for Smart Cities and Villages
Springer Nature
Smart Cities and the UN's SDGs explores how smart

cities initiatives intersect with the global goal of making urbanization inclusive, resilient, and sustainable. Topics explored include digital governance, e-democracy, health care access, public-private partnerships, well-being, and more. Examining smart cities concepts, tools, strategies, and obstacles and their applicability to sustainability, the book exposes key structural problems that cities face and how the imperative of sustainability can bypass them. It shows how smart city technological innovation can boost citizens' well-being, serving as a key reference for those seeking to make sense of the issues and challenges of smart cities and SDGs. Includes numerous case studies from around the world
Features interdisciplinary insights from academic and practitioner experts
Offers an extensive literature review
Smart Village Technology
Partridge Publishing
Humane and Sustainable Smart Cities explores how to develop emergent smart cities that are rooted in humane,

innovative and sustainable values (CHIS). The book considers the move from technocratic and idealized smart metropole to humane cities as a product of fundamental demographic changes, the development of a usage-based rather than an ownership economy, the novel implications of digitalization, decentralization and decarbonization, and Internet-enabled changes in public opinion towards democratization and participation. The book's authors explore seven dimensions and characteristics of humane, sustainable and innovative cities in the developing world: the economy, people, the place, energy and the environment, mobility, social inclusion and governance. Additional sections the operationalization of the CHIS concept into formal planning, policy implementation, and impact assessment considerations. Final discussions center on building a roadmap for planners seeking to design development policies conducive to human values and long-term social viability. Provides an axiological

framework for the development of humane, innovative and sustainable cities Examines how that framework can be operationalized into formal planning, policy implementation and impact assessment Explores humane, innovative and sustainable cities in terms of seven dimensions, including the economy, people, the place, energy and the environment, mobility, social inclusion and governance Explores proven paths for promoting effective community engagement in developing humane cities Provides a practical roadmap to design development policies conducive to human values and long-term social viability

Advances in Smart Cities Elsevier

This book, based on extensive international collaborative research, highlights the state-of-the-art design of smart living for metropolises, megacities, and metacities, as well as at the community and neighbourhood level. Smart living is one of six main components of smart cities, the others being smart people, smart economy, smart

environment, smart mobility and smart governance. Smart living in any smart city can only be designed and implemented with active roles for smart people and smart city government, and as a joint effort combining e-Democracy, e-Governance and ICT-IoT systems. In addition to using information and communication technologies, the Internet of Things, Internet of Governance (e-Governance) and Internet of People (e-Democracy), the design of smart living utilizes various domain-specific tools to achieve coordinated, effective and efficient management, development, and conservation, and to improve ecological, social, biophysical, psychological and economic well-being in an equitable manner without compromising the sustainability of development ecosystems and stakeholders. This book presents case studies covering more than 10 cities and centred on domain-specific smart living components. The book is issued in two volumes and this volume focus on community studies and ways and means.

[Sustainable Smart Cities in India](#) Bentham Science

Publishers

This Handbook examines the regulatory, social, financial, and technological issues pertaining to energy communities in smart cities. Evidencing the emergence of new imperatives at the intersection of sustainability, resilience, innovation, and legal issues, energy communities embody the thrust of the user-centred digital transformation our societies are subjected to today. By bridging the energy communities' debate with smart cities research, this Handbook positions itself at the heart of the conversation on energy sustainability, climate action, and 'just transition'. Drawing on contributions from across the globe, this book offers both a birds-eye and a detailed inter- and multidisciplinary insight into the emergence of energy communities and their evolution in the smart city context. Technological and regulatory aspects of this transition are explored from a variety of conceptual and empirical perspectives. Case studies evidencing developments in the Global South and the Global North embellish

the conversation.

Questions of climate change, energy efficiency, renewable energy sources, emissions' reduction, and corresponding policy frameworks are discussed. Dedicated to all those interested in climate action, energy transition, sustainable development, and smart cities, this Handbook will be of interest to policymakers, lawyers, energy and urban experts, researchers, and students.

Smart Cities and the UN SDGs Springer Nature

There is ever more research on smart cities and new interdisciplinary approaches proposed on the study of smart cities. At the same time, problems pertinent to communities inhabiting rural areas are being addressed, as part of discussions in contiguous fields of research, be it environmental studies, sociology, or agriculture. Even if rural areas and countryside communities have previously been a subject of concern for robust policy frameworks, such as the European Union's Cohesion Policy and Common Agricultural Policy Arguably, the concept of 'the village' has been largely absent in

the debate. As a result, when advances in sophisticated information and communication technology (ICT) led to the emergence of a rich body of research on smart cities, the application and usability of ICT in the context of a village has remained underdiscussed in the literature. Against this backdrop, this volume delivers on four objectives. It delineates the conceptual boundaries of the concept of 'smart village'. It highlights in which ways 'smart village' is distinct from 'smart city'. It examines in which ways smart cities research can enrich smart villages research. It sheds light on the smart village research agenda as it unfolds in European and global contexts.]

Smart Villages

Routledge

Smart Cities Unbundled describes how the Smart Cities Mission has reconceptualized and extended the Smart City model in ways that makes it relevant and useful for most of India's major cities, as well as for many cities worldwide. The book prescribes a 'smart' Indian approach to urban development that veers away from a narrow technician focus to a

broader, more inclusive and flexible conceptualization of a Smart City. This fresh approach fully recognizes the fundamental need to make people part of policy formulation and partners in implementation, while still integrating the use of advanced technology and urban informatics to improve the technical efficiency of essential public services. As such, it describes an adaptive framework that recognizes differing local circumstances, and as such, will assist urban development professionals in India and elsewhere to adapt the application of smart city strategies to their unique contexts. Clearly, this book will be useful for practitioners and students, both in India and abroad. As a text, *Smart Cities Unbundled* can assist urban development practitioners and students to understand the value of integrating human-scale planning with advanced sensor-based urban informatics using artificial intelligence and cloud computing. The work is grounded in western theories and concepts of smart cities, and provides insight to the application

of sustainable and inclusive development, and how compact area development can create a replicable model that can serve as a 'lighthouse' to other aspiring areas and cities. In addition, the book is strongly focused on Indian urban development practices and ideas, as reflected in the discussion of the 'loose fit, light touch' framework, special purpose vehicles and the Bespoke method of capacity building. These will be of interest to Indians as well as non-Indians interested in Indian development approaches.

Affordable Housing for Smart Villages Springer
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.
[Smart and Sustainable Cities?](#) W. W. Norton & Company
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!

Smart Cities: Issues and Challenges Elsevier
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 Planning, Housing and Infrastructure for Smart Villages MIT Press

India is a country of villages and its development is synonymous with the development of the people living in rural areas. India is a vast and second most populated country of the world. Current population of India is 1.21 billion. Out of this 68.84 % of population lives in rural India. But a big part of this population has been leading an uncertain economic life due to non-synchronization of employment opportunities in agriculture sector because of the fast growing population. Village is founded on the remembrance of the origin of Man and of the Culture fostered. Every culture is a unique. No culture is cast in stone. Culture is selective. Culture is patterned. Cultural heritage has a higher ontological value. Its tangible and intangible forms assume significance in everyday life. The forms dissolve in time, yet remain like salt in a pond of water. In truth, the process of dissolution is

more fulfilling in its function than structure. Cultural heritage is not the frozen property of a particular people of a particular place; it transcends its empirical segregation and individualization to become part of a larger human heritage. A rural area is a geographic area that is located outside cities and towns are also known as 'village' in India. As per statistics there are 676 districts in 29 states and 7 Union territories in India with many villages. All areas which are not categorized as urban area are considered as rural area. Numbers of villages in India are approximately 6,38,588. According to 2011 census, rural area has population of 68.84%, whereas urban area has population of 31.16% only. In the Indian context, villages are the heart of the nation. Hence, for the overall development of the country the focus must be given to the grass root level, and that means the focus areas should be the Indian village. The economy of India is a developing mixed economy. It is the world's sixth-largest economy by nominal GDP and the third-largest by

purchasing power parity. The agricultural sector is the largest employer in India's economy but contributes to a declining share of its GDP (17% in 2013-14). India ranks second worldwide in farm output. As we can see in the chart that the GDP growth of agriculture in 1950 was about 51.88% but by the passage of time that decreases in 2014 up to 13.94%. As we know that US is developed country but it contributes only 2% in agriculture and as our India is a land of fertile soil and minerals contributes 17% which is greater than any other country in world. "Is there need of developing smart city or need of smart village?" there is of course no need of smart cities to be developed but there is need of developing smart villages. So why not to use our potential of such fertile land to make India super power? Every village has their own unique identity, culture, climate, history, and identity. But due to pressure of urbanization on rural areas people migrate from rural to urban areas. Urbanization is taking place at a faster rate in India. Population residing in urban areas in India, according to 1901 census, was 11.4%. This count

increased to 28.53% according to 2001 census, and crossing 30% as per 2011 census, standing at 31.16%.

Affordable Housing for Smart Villages

Emerald Group Publishing

This book offers a transdisciplinary perspective on the concept of "smart villages" Written by an authoritative group of scholars, it discusses various aspects that are essential to fostering the development of successful smart villages. Presenting cutting-edge technologies, such as big data and the Internet-of-Things, and showing how they have been successfully applied to promote rural development, it also addresses important policy and sustainability issues. As such, this book offers a timely snapshot of the state-of-the-art in smart village research and practice.

Smart Village As a Back Bone to Development

Elsevier

This book asserts that the goal of smart villages should shift from one of extraction to one of community value creation. To begin this conversation, we examine the smart village discourse, debates in

design theory, non-western traditions of innovation, and sustainable development. Through case studies of smart village co-design we offer a way forward. This book is relevant for engineers, social scientists, and development practitioners. The book will be of special interest to those seeking to expand their inquiry into the role of science and technology in low and middle-income countries. Reconstructs the goals of smart villages to a community centric model. Intertwines the concepts of sustainable development and smart villages. Describes case studies achieving local value creation and circulation.

Smart Villages

Routledge
As smart cities are rapidly developing, it is vital that they are built on a combination of support and active participation of self-decisive, independent, and aware citizens by ensuring strong human capital, social capital, and information and communications technology infrastructure. Due to this evolution across the globe, it is critical to examine how others are working to

create smarter cities in order to learn and revolutionize the way cities are planned and executed. **Planning and Designing Smart Cities in Developing Nations** explores smart city implementation in developing countries by highlighting the challenges and opportunities of smart cities and showcasing various developments and accomplishments and presents a framework to implement strategic plans for smart development. Covering topics such as smart technologies and social capital, it is ideal for policymakers, economic and development professionals, city planners and designers, government officials, academicians, professors, and students.

Smart Cities For

Dummies **John Wiley & Sons**

Acknowledging the smart cities phenomenon not as a future goal but as an active part of our present, this book critically examines the strategies, business models, practices, tools, and actions needed to ensure that smart cities deliver the solutions they promise.

Sustainable Development

in Rural Areas

Independently Published
This book initiates a fresh discussion of affordability in rural housing set in the context of the rapidly shifting balance between rural and urban populations. It conceptualises affordability in rural housing along a spectrum that is interlaced with cultural and social values integral to rural livelihoods at both personal and community level. Developed around four intersecting themes: explaining houses and housing in rural settings; exploring affordability in the context of aspirations and vulnerability; rural development agendas involving housing and communities; and construction for resilience in rural communities, the book provides an overview of some of the little understood and sometimes counter-intuitive best practices on rural affordability and affordable housing that have emerged in developing economies over the last thirty years. Drawing on practice-based evidence this book presents innovative ideas for harnessing rural potential, and empowering rural communities with added

affordability and progressive development in the context of housing and improved living standards. For a student aspiring to work in rural areas in developing countries it is an introduction to and map of some key solutions around the critical area of affordable housing For the rural development professional, it provides a map of a territory they rarely see because they are absorbed in a particular rural area or project For the academic looking to expand their activities into rural areas, especially in rural housing, it provides a handy introduction to a body of knowledge serving 47% of the world's population, and how this differs from urban practice For the policy makers, it provides a map for understanding the dynamics around rural affordability, growth potential and community aspirations helping them to devise appropriate intervention programs on rural housing and development

Smart Cities, Smart Future

Elsevier
Over the last years, soph ...

Sustainable Smart Cities and Smart Villages Research

Elsevier

The smart city is a driver of change, innovation, competitiveness, and networking for businesses and organizations based on the concept of the Sustainable Development Goals for the 2030 agenda. The importance of a new paradigm regarding the externalities of the environment, citizen welfare, and natural resources in cities as an impact of urban ecosystems is the main objective for sustainable development in cities through 2030. Smart Cities, Citizen Welfare, and the Implementation of Sustainable Development Goals provides innovative insights into the key developments and new trends associated with online challenges and opportunities in smart cities based on the concept of the Sustainable Development Goals. The content within this publication represents research encompassing corporate social responsibility, economic policy, and city planning. This book serves as a vital reference source for urban planners, policymakers, managers, entrepreneurs, graduate-level students,

researchers, and academicians seeking coverage on topics centered on conceptual, technological, and design issues related to smart city development in Europe.

Humane and Sustainable Smart Cities Routledge Smart cities and villages have enhanced the quality of lives of residents. Various computer-assisted technologies have been harnessed for the development of smart cities and villages in order to provide solutions for common and niche urban problems. The development of smart environments has been possible due on advances in computing power and artificial intelligence (AI) that have allowed the deployment of scalable technologies. Artificial Intelligence for Smart Cities and Smart Villages: Advanced Technologies, Development, and Challenges summarizes the role of AI in planning and designing smart solutions for urban and rural environments. This book is divided into three sections to impart a better understanding of the topics to readers. These sections are: 1) Demystifying smart cities and villages: A traditional

perspective, 2) Smart innovations for rural lifestyle management solutions, and 3) Case studies. Through this book, readers will be able to understand various advanced technologies that are vital to the development of smart cities and villages. The book presents 15 chapters that present effective solutions to urban and rural challenges. Concepts highlighted in chapters include smart farms, indoor object classification systems, smart transportation, blockchains for medical information, humanoid robots for rural education, IoT devices for farming, and much more. This book is intended for undergraduate and graduate engineering students across all disciplines, security providers in the IT and related fields, and trainees working for infrastructure management companies. Researchers and consultants at all levels working in the areas of artificial intelligence, machine learning, IoT, blockchain, network security, and cloud computing will also find the contents beneficial in planning projects

involving smart environments.

Smart Cities Bloomsbury Publishing

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.

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