Smart Villages And Smart Cities Nptel

Big Data Research for Social Sciences and Social ImpactOECD Regional Outlook 2016 Productive Regions for Inclusive SocietiesSmart Village TechnologySingaporeSmart Villages in the EU and BeyondSmart Cities and Smart Spaces: Concepts, Methodologies, Tools, and ApplicationsAdvances in Smart CitiesSmart Villages in the EU and BeyondSmart VillagesFrom Poverty, Inequality to Smart CityNew Horizons in Web Based LearningPolitics and Technology in the Post-Truth EraResilient CitiesSmart Cities: Big Data, Civic Hackers, and the Quest for a New UtopiaBlockchain Technology for Smart CitiesThe Smart City – how smart can 'IT' be?Designing, Developing, and Facilitating Smart CitiesSuburban UrbanitiesCreating Smart CitiesSmart Living for Smart CitiesSmart and Sustainable Planning for Cities and RegionsHow to Create Smart VillagesMaking Smart Cities More PlayableSmart CitiesEmerging Trends in Engineering, Science and Technology for Society, Energy and EnvironmentSmart Cities of Today and TomorrowSmart, Resilient and Transition CitiesAffordable Housing for Smart VillagesSmart Cities: Issues and ChallengesSustainable Smart Cities and Smart Villages ResearchBiological ExtinctionSmart Cities TechnologiesSmart Village As a Back Bone to DevelopmentKnowledge Management, Innovation and Big DataInnovations in Smart Cities and ApplicationsSmart CitySmart City EmergenceNetwork Design And Optimization For Smart CitiesThe UntouchablesPlanning, Housing and Infrastructure for Smart Villages

Big Data Research for Social Sciences and Social Impact

Cities are facing many challenges; challenges linked to world-wide trends like urbanisation, climate changes and globalisation. In parallel to these trends, we have seen a rapid digitalisation in and of different parts of society. Cities and local governments have been appointed an important role in overcoming these world-wide challenges, and subsequently, in policy practices digitalisation is perceived as an important dimension in delivering better and sustainable services to its citizens. As a result, the smart city has emerged as a concept and approach to contemporary urban planning and development. There is still no common understanding of the concept and what components and dimensions it covers. However, in all definitions digitalisation constitutes one dimension, but the role and function of it is still not clear. In this study I have examined how different stakeholders talk about digitalisation in policy and planning practices of urban development. The aim has been to identify and analyse different repertoires of discourses on digitalisation to advance our knowledge on how goals related to the smart city and digitalisation are put into practice. The results are based on a qualitative and interpretative case study with a social constructionist approach. An analytical framework based on discourse analysis, stakeholder theory and (new) institutional theory has been constructed to analyse the case. Main results show

that repertoires on digitalisation are limited in both policy and planning of urban development. In these practices, digitalisation is primarily seen as a means or as a communication infrastructure in relation to two city services/functions; i.e. services related to governance and to environment. Results also show that practices of urban planning and development are institutionalised, where different stakeholders' salience and stakes in urban development and in digitalisation differ, but it is clear that digitalisation is a secondary issue. Implications of these results are that the taken-for-granted discourses in policy and planning practices of urban development limit both practice and research when developing a smart city.
Städer står inför många utmaningar kopplat till världsomspännande trender såsom urbanisering, klimatförändringar, och globalisering. Parallellt med dessa trender har vi sett en snabb digitalisering i och av olika delar av samhället. I detta sammanhang har städer och kommuner blivit tilldelade en viktig roll i hanteringen av dessa utmaningar. På policynivå ses digitalisering som en viktig dimension för att leverera hållbar och bättre service till medborgarna. Som ett led i detta har smarta städer vuxit fram som både begrepp och metod för stadsplanering och stadsutveckling. Det finns dock ingen gemensam tolkning av begreppet. Däremot finns digitalisering med som en dimension i definitionerna, men vilken roll och funktion den har är fortfarande oklart. I denna studie har jag undersökt hur olika intressenter talar om digitalisering i olika policy- och planeringspraktiker kopplat till stadsutveckling. Syftet har varit att identifiera och analysera repertoarer av digitaliseringsdiskurser för att bidra med kunskap om hur mål kopplade till smarta

städer och digitalisering omsätts i praktiken. Resultaten är baserade på en kvalitativ och tolkande fallstudie med en socialkonstruktionistisk ansats. Ett analytiskt ramverk baserat på diskursanalys, intressentanalys, och nyinstitutionell teori har tagits fram för att analysera fallet. Resultaten visar att digitaliseringsrepertoarer är begränsade både i policy och i planering av stadsutveckling. I dessa praktiker ses digitalisering främst som ett verktyg eller en kommunikationsinfrastruktur i relation till två samhällsfunktioner, nämligen funktioner kopplade till styrning och administration, och funktioner kopplade till miljö. Resultaten visar också att praktiker kopplade till stadsplanering och stadsutveckling är institutionaliserade, praktiker där olika intressenter har olika makt, legitimitet och angelägenhet gällande stadsutveckling och digitalisering. Det är dock tydligt att digitalisering är en sekundär fråga. Implikationerna av dessa resultat är att de förgivettagna diskurserna begränsar både praktiken och forskningen i utvecklingen av smart städer.

OECD Regional Outlook 2016 Productive Regions for Inclusive Societies

This book discusses how smart cities strive to deploy and interconnect infrastructures and services to guarantee that authorities and citizens have access to reliable and global customized services. The book addresses the wide range of

topics present in the design, development and running of smart cities, ranging from big data management, Internet of Things, and sustainable urban planning. The authors cover - from concept to practice – both the technical aspects of smart cities enabled primarily by the Internet of Things and the socio-economic motivations and impacts of smart city development. The reader will find smart city deployment motivations, technological enablers and solutions, as well as state of the art cases of smart city implementations and services. · Provides a single compendium of the technological, political, and social aspects of smart cities; · Discusses how the successful deployment of smart Cities requires a unified infrastructure to support the diverse set of applications that can be used towards urban development; · Addresses design, development and running of smart cities, including big data management and Internet of Things applications.

Smart Village Technology

This book provides a comprehensive overview of various aspects of the development of smart cities from a secure, trusted, and reliable data transmission perspective. It presents theoretical concepts and empirical studies, as well as examples of smart city programs and their capacity to create value for citizens. The contributions offer a panorama of the most important aspects of smart city evolution and implementation within various frameworks, such as healthcare, education, and transportation. Comparing current advanced applications and best

practices, the book subsequently explores how smart environments and programs could help improve the quality of life in urban spaces and promote cultural and economic development.

Singapore

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 Villages in the EU and Beyond

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

The evolution of knowledge management theory and the special emphasis on human and social capital sets new challenges for knowledge-driven and technology-enabled innovation. Emerging technologies including big data and analytics have significant implications for sustainability, policy making, and competitiveness. This edited volume promotes scientific research into the potential contributions knowledge management can make to the new era of innovation and social inclusive economic growth. We are grateful to all the contributors of this edition for their intellectual work. The organization of the relevant debate is aligned around

three pillars: SECTION A. DATA, KNOWLEDGE, HUMAN AND SOCIAL CAPITAL FOR INNOVATION We elaborate on the new era of knowledge types and the emerging forms of social capital and their impact on technology-driven innovation. Topics include: · Social Networks · Smart Education · Social Capital · Corporate Innovation · Disruptive Innovation · Knowledge integration · Enhanced Decision-Making. SECTION B. KNOWLEDGE MANAGEMENT & BIG DATA ENABLED INNOVATION In this section, knowledge management and big data applications and systems are presented. Selective topic include: · Crowdsourcing Analysis · Natural Language Processing · Data Governance · Knowledge Extraction · Ontology Design Semantic Modeling SECTION C. SUSTAINABLE DEVELOPMENT In the section, the debate on the impact of knowledge management and big data research to sustainability is promoted with integrative discussion of complementary social and technological factors including: · Big Social Networks on Sustainable Economic Development · Business Intelligence

Advances in Smart Cities

Increasing depopulation is causing huge problems for rural communities, leading to a reduction in services and infrastructure in areas with ageing populations. This book examines the concept of the Smart Village, an ICT-conscious integrated strategy which provides a sustainable solution to these problems, helping to revitalize rural areas.

Smart Villages in the EU and Beyond

This book presents a comprehensive overview of the various aspects for the development of smart cities from a European perspective. It presents both theoretical concepts as well as empirical studies and cases of smart city programs and their capacity to create value for citizens. The contributions in this book are a result of an increasing interest for this topic, supported by both national governments and international institutions. The book offers a large panorama of the most important aspects of smart cities evolution and implementation. It compares European best practices and analyzes how smart projects and programs in cities could help to improve the quality of life in the urban space and to promote cultural and economic development.

Smart Villages

This book constitutes the revised selected papers of the workshops of the 10th and 11th International Conference of Web-based Learning, ICWL 2011, held in Hong Kong, in December 2011 and ICWL 2012, held in Sinaia, Romania, in September 2012. This volume comprises papers from one symposium that took place both in 2011 and 2012 and four workshops (two from 2011 and two from 2012): 1. The 1st and 2nd International Symposium on Knowledge Management and E-Learning

(KMEL2011 / 2012); 2. The 1st International Workshop on Enhancing Learning with Social (ELSM 2011); 3. The 4th International Workshop on Social and Personal Computing for Web-Supported Learning (SPeL 2011); 4. International Workshop on Learning within and from Smart Cities (SciLearn 2012); 5. International Workshop on Creative Collaboration through Supportive Technologies in Education (CCSTED 2012).

From Poverty, Inequality to Smart City

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.

New Horizons in Web Based Learning

This book is a printed edition of the Special Issue "Sustainable Smart Cities and

Smart Villages Research" that was published in Sustainability

Politics and Technology in the Post-Truth Era

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.

Resilient Cities

This book comprises a selection of the top contributions presented at the second international conference “Smart and Sustainable Planning for Cities and Regions

2017", held in March 2017 in Bolzano, Italy. Featuring forty-six papers by policy-makers, academics and consultants, it discusses current groundbreaking research in smart and sustainable planning, including the progress made in overcoming cities' challenges towards improving the quality of life. Climate change adaptation and mitigation of global warming, generally identified as drivers of global policies, are just the "tip of the iceberg" when it comes to smart energy transition. Indeed, equally relevant towards this current transformation – and key topics in this volume – are ICTs, public spaces and society; next economy for the city; strategies and actions for good governance; urban-rural innovation; rethinking mobility. The book's depth in understanding and insightfulness in re-thinking demonstrate the breaking of new ground in smart and sustainable planning. A new ground that policy-makers, academics and consultants may build upon as a bedrock for smart and sustainable planning.

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

Smart, Resilient and Transition Cities: Emerging Approaches and Tools for Climate-Sensitive Urban Development starts with a presentation of three widespread Urban Metaphors, which are gaining increasing attention from urban planners and decision-makers: Smart City, Resilient City and Transition Towns, being all of them

focused on the need for enhancing cities' capacities to cope with the multiple and heterogeneous challenges threatening contemporary cities and their future development and, above all, with climate issues. Then, the Authors provide an overview of current large-scale and urban strategies to counterbalance climate change so far undertaken in different geographical contexts (Europe, United States, China, Africa and Australia), shedding light on the different approaches, on the different weights assigned to mitigation and adaptation issues as well as on the main barriers hindering their effectiveness and translation into measurable outcomes. Opportunities and criticalities arising from the rich, 'sprawled' and 'blurred' landscape of current strategies and initiatives in the face of climate change pave the way to a discussion on the lessons learnt from current initiatives and provide new hints for developing integrated climate strategies, capable to guide planners and decision makers towards a climate sensitive urban development Smart, Resilient and Transition Cities: Emerging Approaches and Tools for Climate-Sensitive Urban Development merges a scientific approach with a pragmatic one. Through a case study approach, the Authors explore strengths and weaknesses of institutional and informal practices to foreshadow innovative paths for an adaptive process of urban governance in the face of climate change. The book guides the reader along new governance paths, characterized by continuous learning and close cooperation and communication among different actors and stakeholders and, in so doing, helps them to overcome current 'siloed' approaches to climate issues. Links resilience, smart growth, low-carbon urbanism, climate-

friendly cities, sustainable development and transition cities, being all these concepts crucial to improve effective climate policies Includes a number of case studies showing how cities, different in size, geographical, cultural and economic contexts are currently dealing with climate issues, grasping synergies and commonalities arising from current institutional practices and transition initiatives Provides strategic and operative guidelines to overcome barriers and critical issues emerging from current practices, promoting cross-sectoral approaches to counterbalance climate change

Blockchain Technology for Smart Cities

Questions why species are becoming extinct, and how we can protect the natural world on which we all depend.

The Smart City – how smart can 'IT' be?

Hackers, cyber-criminals, Dark Web users, and techno-terrorists beware! This book should make you think twice about attempting to do your dirty work in the smart cities of tomorrow. Scores of cities around the world have begun planning what are known as "smart cities." These new or revamped urban areas use the latest technology to make the lives of residents easier and more enjoyable.They will have

automated infrastructures such as the Internet of Things, “the Cloud,” automated industrial controls, electronic money, mobile and communication satellite systems, wireless texting and networking. With all of these benefits come new forms of danger, and so these cities will need many safeguards to prevent cyber criminals from wreaking havoc. This book explains the advantages of smart cities and how to design and operate one. Based on the practical experience of the authors in projects in the U.S. and overseas in Dubai, Malaysia, Brazil and India, it tells how such a city is planned and analyzes vital security concerns that must be addressed along the way. Most of us will eventually live in smart cities. What are the advantages and the latest design strategies for such ventures? What are the potential drawbacks? How will they change the lives of everyday citizens? This book offers a preview of our future and how you can help prepare yourself for the changes to come.

Designing, Developing, and Facilitating Smart Cities

What are smart cities? What are their purposes? What are the impacts resulting from their implementations? With these questions in mind, this book is compiled with the primary concern of answering readers with different profiles; from those interested in acquiring basic knowledge about the various topics surrounding the subject related to smart cities, to those who are more motivated by knowing the technical elements and the technological apparatus involving this theme. This book

audience is multidisciplinary, as it will be confirmed by the various chapters addressed here. It explores different knowledge areas, such as electric power systems, signal processing, telecommunications, electronics, systems optimization, computational intelligence, real-time systems, renewable energy systems, and information systems.

Suburban Urbanities

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

Creating Smart Cities

This book explores the ways in which the broad range of technologies that make up the smart city infrastructure can be harnessed to incorporate more playfulness into the day-to-day activities that take place within smart cities, making them not only more efficient but also more enjoyable for the people who live and work within their confines. The book addresses various topics that will be of interest to playable cities stakeholders, including the human–computer interaction and game designer communities, computer scientists researching sensor and actuator technology in public spaces, urban designers, and (hopefully) urban policymakers. This is a follow-up to another book on Playable Cities edited by Anton Nijholt and published in 2017 in the same book series, Gaming Media and Social Effects.

Smart Living for Smart Cities

This comprehensive reference text is a collection of important research findings on

the latest developments in network modeling for optimization of smart cities. Such models can be used from outlining the fundamental concepts of urban development to the description and optimization of physical networks, such as power, water or telecommunications. Networks help us understand city economics and various aspects of human interactions within cities with particular applications in quality of life and the flow of people and goods. Finally, the natural environment and even the climate of cities can be modeled and managed as networks.

Smart and Sustainable Planning for Cities and Regions

This proceedings book showcases the latest research work presented at the Second Edition of the Mediterranean Symposium on Smart City Application (SCAMS 2017), which was held in Tangier, Morocco on October 15–27, 2017. It presents original research results, new ideas and practical development experiences that concentrate on both theory and practice. It includes papers from all areas of Smart City Applications, e.g. Smart Mobility, Big Data, Smart Grids, Smart Homes and Buildings, clouds, crowds, mashups, social networks, and security issues. The conference stimulated cutting-edge research discussions among pioneering researchers, scientists, industrial engineers, and students from all around the world. The topics covered in this book also focus on innovative issues at the international level by bringing together experts from different countries. The scope of SCAMS 2017 included methods and practices that combine various emerging

internetworking and data technologies to capture, integrate, analyze, mine, annotate, and visualize data in a meaningful and collaborative manner. A series of international workshops were organized as invited sessions during the SCAMS 2017:The 2nd International Workshop on Smart Learning & Innovative EducationsThe 1st International Workshop on Smart HealthcareThe 1st International Workshop on Mathematics for Smart CityThe 1st International Workshop Industry 4.0 and Smart Manufacturing

How to Create Smart Villages

Some 7.3 billion people currently live on the planet. Of these, 3.4 billion live in rural areas. In just a few regions—Latin America, the Middle East and North Africa—less than 50 per cent of poverty is now located in rural areas. But for the rest of the world's regions between 55 per cent and 80 per cent of the poor continue to live in the countryside. Progress is being made, but much of the knowhow needed is not disseminated outside of a small coterie of professionals who work in the area. With urban development attracting a great deal of attention lately, poorer rural areas deserve the same and new knowledge for empowerment of rural communities is urgently needed. This book provides an overview of current thinking and practices that have emerged over the last thirty years for uplifting rural communities in developing economies. Drawing on a body of knowledge across a spectrum of relevant disciplines, this book provides a range of innovative

ideas for rural planning, housing and infrastructure development. Governments in many emerging economies, where rural poverty is often most acute, have attempted to improve livelihoods. Approaches and techniques that have been used for urban development are often not applicable to rural communities. Studies show that money allocated for rural development is often not effectively spent due to distance, lack of infrastructure, lack of education, poverty and other factors. Meanwhile, the gap in development between the city and country continues to grow, sometimes leading to social and political instability, in both developing and developed countries. This book seeks to provide a guidebook for meeting such challenges. Through in-depth enquiry of global practices and thinking about rural development, and selected case studies, the authors argue that careful consideration must be given to incorporating issues of resilience, resourcefulness and the involvement of communities at grassroots levels in realising the transformation of rural settlements into Smart Villages.

Making Smart Cities More Playable

The authors of this spirited book don't believe that oblivion is necessarily the destiny of urban areas. Instead, they believe that intelligent planning and visionary leadership can help cities meet the impending crises, and look to existing initiatives in cities around the world. Rather than responding with fear (as a legion of doomsaying prognosticators have done), they choose hope. This is not a book

filled with "blue sky" theory (although blue skies will be a welcome result of its recommendations). Rather, it is packed with practical ideas, some of which are already working in cities today. It frankly admits that our cities have problems that will worsen if they are not addressed, but it suggests that these problems are solvable. And the time to begin solving them is now.

Smart Cities

The COVID-19 Crisis is a game-changer that will eventually benefit rural economies around the world. Around 3.4 billion people are living in rural areas lacking access to resources, tools, knowledge, and markets to find their way to prosperity. The exodus of millions of migrant workers from cities and back to their villages in India demonstrated that digital infrastructure that connects rural populations to the rest of the world is critical. Governments singlehanded providing all required solutions to its population are reaching their limits. How to Create Smart Villages shows how large corporations and startups can take upon the responsibility in solving villagers' needs while tapping into exciting growth markets. To get valuable results from innovation, businesses, governments, academics, and civil society must be reconciled while opening up their relevant resources, knowledge, and expertise. Solomon Darwin, Professor and Executive Director at the Haas School of Business, also known as the father of the Smart Village Movement, inspired the start of the Smart Villages Movement at UC Berkeley in 2016. This movement created a

platform for innovators from private and public sectors to empower the underserved communities in rural India and beyond. Alongside Henry Chesbrough, Adjunct Professor and Faculty Director at the Haas School of Business, UC Berkeley, and father of the Open Innovation paradigm, both define Smart Villages as "a community empowered by digital tools and Open Innovation platforms to access global markets". To the present, the Smart Village idea is being executed in three Indian states in close collaboration with the Indian government alongside companies such as Google, Ericsson, Intel, TATA group, TechMahindra, Dell, VMWare, Nvidia, Reliance, IBM, Airtel, Wipro, AWS, Intel, Adobe, Autodesk, Microsoft, ThyssenKrupp, Siemens, Enel Energy, SAP, Xerox, Oracle, and Salesforce. Solomon Darwin and Werner Fischer, an expert in sustainable development and a more recent scholar of Open Innovation at UC Berkeley, bring to this book their on-ground research and use cases from Indian villages. Alongside Henry Chesbrough, author of several management books and recognized as one of the top 50 business and technology leaders by Scientific American, they offer a thought-provoking process to unlock innovation in rural emerging markets. This book provides rare, unique insights from business-driven innovation in a demanding territory like rural India through powerful Open Innovation ecosystems to accelerate economic and social impact. It captures all the successes, learnings, and failures since 2016 to be finally shared with the world for contributing towards more effective sustainable development. Village communities are the source of food production and hence the source of life for human lives around the world. Join

the Smart Village Movement to light up the dark world when providing a new, exciting way towards villagers' prosperity.

Emerging Trends in Engineering, Science and Technology for Society, Energy and Environment

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.

Smart Cities of Today and Tomorrow

This book brings together technical expertise, best practices, case studies and ground-level application of the ideas for empowering the rural population of the world to live economically prosperous, environmentally sustainable, and socially progressive lives, on par or comparable with the quality of life enjoyed by the global urban population. The idea of Smart Villages takes on greater urgency in light of the investments made in this millennium on “Smart Cities”, taking advantage of the technological advances, particularly in digital connectivity. These

investments have and will continue to expand the urban-rural divide, unless similar investments are made in the villages as well. The book provides a much-needed guide for a holistic development of a Smart Village, by defining the need, developing the framework, and describing the delivery, complete with successful case studies. Contributors to the book, from Canada, USA, Africa and India bring years of academic, industry and governmental experience, including organization of several Smart Village conferences. The knowledge base in the book will be of great value to anyone interested in or active in rural planning, including governmental and non-governmental organizations, industrial solution providers, public healthcare professionals, public policy professionals and students, as well as rural communities around the world. Consolidates all the aspects of creating/developing a Smart Village; Delivers an effective tool-kit for practitioners in the area of Smart Villages; Provides a policy-based framework for the development of an ideal Smart Village; Illustrates, through case studies, the fulfillment of key requirements of a Smart Village; Brings together experts from around the world to share their vision of a Smart Village; Highlights the importance of balancing development with social/gender equity and cultural traditions.

Smart, Resilient and Transition Cities

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

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

Affordable Housing for Smart Villages

Suburban space has traditionally been understood as a formless remnant of

physical city expansion, without a dynamic or logic of its own. Suburban Urbanities challenges this view by defining the suburb as a temporally evolving feature of urban growth.Anchored in the architectural research discipline of space syntax, this book offers a comprehensive understanding of urban change, touching on the history of the suburb as well as its current development challenges, with a particular focus on suburban centres. Studies of the high street as a centre for social, economic and cultural exchange provide evidence for its critical role in sustaining local centres over time. Contributors from the architecture, urban design, geography, history and anthropology disciplines examine cases spanning Europe and around the Mediterranean.By linking large-scale city mapping, urban design scale expositions of high street activity and local-scale ethnographies, the book underscores the need to consider suburban space on its own terms as a specific and complex field of social practice

Smart Cities: Issues and Challenges

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 and Smart Villages Research

The OECD Regional Outlook 2016 examines the widening productivity gap across regions within countries, and the implications of these trends for the well-being of people living in different places.

Biological Extinction

Increasing depopulation is causing huge problems for rural communities, leading to

a reduction in services and infrastructure in areas with ageing populations. This book examines the concept of the Smart Village, an ICT-conscious integrated strategy which provides a sustainable solution to these problems, helping to revitalize rural areas.

Smart Cities Technologies

A new era of innovation is enabled by the integration of social sciences and information systems research. In this context, the adoption of Big Data and analytics technology brings new insight to the social sciences. It also delivers new, flexible responses to crucial social problems and challenges. We are proud to deliver this edited volume on the social impact of big data research. It is one of the first initiatives worldwide analyzing of the impact of this kind of research on individuals and social issues. The organization of the relevant debate is arranged around three pillars: Section A: Big Data Research for Social Impact: • Big Data and Their Social Impact; • (Smart) Citizens from Data Providers to Decision-Makers; • Towards Sustainable Development of Online Communities; • Sentiment from Online Social Networks; • Big Data for Innovation. Section B. Techniques and Methods for Big Data driven research for Social Sciences and Social Impact: • Opinion Mining on Social Media; • Sentiment Analysis of User Preferences; • Sustainable Urban Communities; • Gender Based Check-In Behavior by Using Social Media Big Data; • Web Data-Mining Techniques; • Semantic Network

Analysis of Legacy News Media Perception. Section C. Big Data Research Strategies: • Skill Needs for Early Career Researchers—A Text Mining Approach; • Pattern Recognition through Bibliometric Analysis; • Assessing an Organization's Readiness to Adopt Big Data; • Machine Learning for Predicting Performance; • Analyzing Online Reviews Using Text Mining; • Context–Problem Network and Quantitative Method of Patent Analysis. Complementary social and technological factors including: • Big Social Networks on Sustainable Economic Development; Business Intelligence.

Smart Village As a Back Bone to Development

The International Conference on Emerging Trends in Engineering, Science and Technology (ICETEST) was held at the Government Engineering College, Thrissur, Kerala, India, from 18th to 20th January 2018, with the theme, "Society, Energy and Environment", covering related topics in the areas of Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Electronics & Communication Engineering, Computer Science and Architecture. Conflict between energy and environment has been of global significance in recent years. Academic research needs to support the industry and society through socially and environmentally sustainable outcomes. ICETEST 2018 was organized with this specific objective. The conference provided a platform for researchers from different domains, to discuss and disseminate their findings. Outstanding speakers,

faculties, and scholars from different parts of the world presented their research outcomes in modern technologies using sustainable technologies.

Knowledge Management, Innovation and Big Data

When the Unthinkable and Impossible Become Inevitable Some things seem impossible, but are not only possible - they are inevitable. This is the story of three Untouchables - my grandmother, my father, and myself - doing many things that should have been impossible. However, sometimes doing the impossible is part of your destiny. I was born an Untouchable in a village in India Best known for his brilliant work, Professor Solomon Darwin is the Director of the Garwood Center for Corporate Innovation at the Haas School of Business, University of California, Berkeley. He is an international speaker recognized by peers, executives and students with numerous awards for his innovative leadership and passion for teaching. He inspires students across disciplines teaching courses in Open Innovation, Business Models, Building Smart Cities, Scalable Smart Villages and Business Models for Emerging Economies. Before joining Berkeley-Haas in 2005, he was an Associate Professor for nine years at the Marshall School of Business, University of Southern California, Los Angeles. His progressive corporate leadership experience covers a span of 14 years as a Senior Executive Officer at Bank of America, First Interstate Bank and Glendale Federal Bank and Motorola. Professor Darwin is a frequent visiting lecturer in Executive Programs at prominent

international universities and institutions. To date, he has conducted workshops and programs in over 18 countries. He also serves as an honorary professor at several universities in Europe, China, and India. Known as the "Father of the Smart Village Movement," he has developed scalable business models that support rural village markets by aligning global brands, start-ups, and local cottage industries to form a better future. He has worked with the Government of India in Andhra Pradesh and with many Silicon Valley startups and global corporations including Google, IBM, Ericsson, PayPal, and Cisco to make the Smart Village Movement a reality. The story of his birth and the amazing rise of his family has, until now, never been revealed. It is a story of hope and faith, persistence, and perseverance against all the odds. And like all the best stories, it has a happy ending and an important lesson for everyone. "I was born an Untouchable in a village in India"

Innovations in Smart Cities and Applications

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 focused 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 grater 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%.

Smart City

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 City Emergence

This book examines the relationship between information and communication technology (ICT) and politics in a global perspective.

Network Design And Optimization For Smart Cities

This book is a comprehensive document visualizing the future of built environment from a multidisciplinary dimension, with special emphasis on the Indian scenario. The multidisciplinary focus would be helpful for the readers to cross-refer and understand others' perspectives. The text also includes case studies substantiating theoretical research. This method of composition helps the book to maintain rational balance among theory, research and its contextual application. The book comprises selected papers from the National Conference on Sustainable Built Environment. The chapters provide varied viewpoints on the core issues of urbanization and planning, especially in the economically diverse Indian market. This compilation would be of interest to students, researchers, professionals and policy makers.

The Untouchables

In cities around the world, digital technologies are utilized to manage city services and infrastructures, to govern urban life, to solve urban issues and to drive local and regional economies. While "smart city" advocates are keen to promote the benefits of smart urbanism – increased efficiency, sustainability, resilience, competitiveness, safety and security – critics point to the negative effects, such as

the production of technocratic governance, the corporatization of urban services, technological lock-ins, privacy harms and vulnerability to cyberattack. This book, through a range of international case studies, suggests social, political and practical interventions that would enable more equitable and just smart cities, reaping the benefits of smart city initiatives while minimizing some of their perils. Included are case studies from Ireland, the United States of America, Colombia, the Netherlands, Singapore, India and the United Kingdom. These chapters discuss a range of issues including political economy, citizenship, standards, testbedding, urban regeneration, ethics, surveillance, privacy and cybersecurity. This book will be of interest to urban policymakers, as well as researchers in Regional Studies and Urban Planning.

Planning, Housing and Infrastructure for Smart Villages

This book reviews the applications, technologies, standards, and other issues related to Smart Cities. The book is divided into broad topical sections including Vision & Reality, Technologies & Standards, Transportation Considerations, and Infrastructure & Environment. In these sections, authors who are experts in their fields present essential aspects of applications, technologies, requirements, and best-practices. In all cases, the authors have direct, substantive experience with the subject and present an important viewpoint driven by industry or governmental interests; the authors have each participated in the development and/or

deployment of constituent technologies, standards, and applications, and share unique perspectives on key areas of the Smart City.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION