
Smart Cities In Europe Open Data In A Smart Mobil

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The Routledge Companion to Smart Cities IGI Global 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

Managing Smart Cities Routledge

Over the last years, sophisticated policy making propositions for sustainable rural and urban development have been recorded. The smart village and smart city concepts promote a human-centric vision for a new era of technology-driven social innovation. This Special Issue offers a useful overview of the most recent developments in the frequently overlapping fields of smart city and smart village research. A variety of topics including well-being, happiness, security, open democracy, open government, smart education, smart innovation, and migration have been addressed in this Special Issue. They define the direction for future research in both domains. The organization of the relevant debate is aligned around three pillars:

- Section A: Sustainable Smart City and Smart Village Research: Foundations
- Clustering Smart City Services: Perceptions, Expectations, and Responses

• Smart City Development and Residents' Well-Being • Analysis of Social Networking Service Data for Smart Urban Planning Section B: Sustainable Smart City and Smart Village Research: Case Studies on Rethinking Security, Safety, Well-being, and Happiness • Exploring a Stakeholder-Based Urban Densification and Greening Agenda for Rotterdam Inner City—Accelerating the Transition to a Liveable Low Carbon City • The Impact of the Comprehensive Rural Village Development Program on Rural Sustainability in Korea • Analyzing the Level of Accessibility of Public Urban Green Spaces to Different Socially Vulnerable Groups of People • Consumers' Preference and Factors Influencing Offal Consumption in the Amathole District Eastern Cape, South Africa • Sustainable Tourism: A Hidden Theory of the Cinematic Image? A Theoretical and Visual Analysis of the Way of St. James • Future Development of Taiwan's Smart Cities from an Information Security Perspective • Towards a Smart and Sustainable City with the Involvement of Public Participation—The Case of Wrocław Section C: Sustainable Smart City and Smart Village Research: Technical Issues • Detection and Localization of Water Leaks in Water Nets Supported by an ICT System with Artificial Intelligence Methods as a Way Forward for Smart Cities • A Study of the Public Landscape Order of Xinye Village • Spatio-Temporal Changes and Dependencies of Land Prices: A Case Study of the City of Olomouc • Geographical Assessment of Low-Carbon Transportation Modes: A Case Study from a Commuter University • Performance Analysis of a Polling-Based Access Control Combined with the Sleeping Schema in V2I VANETs for Smart Cities.

Transforming City Governments for Successful Smart Cities Routledge

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

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

Cultural heritage is perceived as the glue that keeps individuals together and makes them feel a part of something larger. It is the past

that allows individuals to understand their present and move towards the future. In networked society, it is impossible to think about cultural heritage and its preservation and maintenance without including the digital processes and ICT systems, as well as its impact on territorial innovation. The Handbook of Research on Cultural Heritage and Its Impact on Territory Innovation and Development is a critical and comprehensive reference book that analyzes how preservation and sustainability of cultural heritage occurs in countries, as well as how it contributes to territorial innovation. Moreover, the book examines how technological tools contribute to its preservation and sustainability, as well as its dissemination. Highlighting topics that include public policies, spatial development, and architectural heritage, this book is ideal for cultural heritage professionals, government officials, policymakers, academicians, researchers, and students.

Handbook of Research on Social, Economic, and Environmental Sustainability in the Development of Smart Cities Springer Nature

Over the past decade smart urban technologies have begun to blanket our cities, forming the backbone of a large intelligent infrastructure. Along with this development, dissemination of the smart cities ideology has had a significant imprint on urban planning and development. Smart Cities and Innovative Urban Technologies focuses on the concepts of smart cities and innovative urban technologies. It contains research that provides insight into spatial formations of information and communication technologies, and knowledge production practices from various perspectives—including analyses of public and private sectors together with NGOs and other stakeholders. It provides a state-of-the-art analysis from multidisciplinary point-of-view in urban studies. Contributions in this edited volume include theoretical

developments as well as empirical analyses. This book will be of great use to various audiences including academics as well as practitioners, spatial developers, planners, and public administrators in order to increase understanding of the dynamics and factors effecting smart cities conceptual maturation and their physical emergence. Information generated in these chapters, particularly regarding the challenges and obstacles of smart cities and innovative urban technologies, are intended to be of benefit to the key local actors in making decision in their cities or /and peripheral locations. This book was originally published as a special issue of the Journal of Urban Technology. Smart and Sustainable Planning for Cities and Regions Emerald Group Publishing

The eight-volume set LNCS 13375 – 13382 constitutes the proceedings of the 22nd International Conference on Computational Science and Its Applications, ICCSA 2022, which was held in Malaga, Spain during July 4 – 7, 2022. The first two volumes contain the proceedings from ICCSA 2022, which are the 57 full and 24 short papers presented in these books were carefully reviewed and selected from 279 submissions. The other six volumes present the workshop proceedings, containing 285 papers out of 815 submissions. These six volumes includes the proceedings of the following workshops: Advances in Artificial Intelligence Learning Technologies: Blended Learning, STEM, Computational Thinking and Coding (AAILT 2022); Workshop on Advancements in Applied Machine-learning and Data Analytics (AAMDA 2022); Advances in information Systems and Technologies for Emergency management, risk assessment and mitigation based on the Resilience (ASTER 2022); Advances in Web Based Learning (AWBL 2022); Blockchain and Distributed Ledgers: Technologies and Applications (BDLTA 2022); Bio and Neuro inspired Computing and Applications (BIONCA 2022); Configurational Analysis For Cities (CA Cities 2022); Computational and Applied Mathematics (CAM 2022), Computational and Applied Statistics (CAS 2022); Computational Mathematics, Statistics and Information Management (CMSIM);

Computational Optimization and Applications (COA 2022); Computational Astrochemistry (CompAstro 2022); Computational methods for porous geomaterials (CompPor 2022); Computational Approaches for Smart, Conscious Cities (CASCC 2022); Cities, Technologies and Planning (CTP 2022); Digital Sustainability and Circular Economy (DiSCE 2022); Econometrics and Multidimensional Evaluation in Urban Environment (EMEUE 2022); Ethical AI applications for a human-centered cyber society (EthicAI 2022); Future Computing System Technologies and Applications (FiSTA 2022); Geographical Computing and Remote Sensing for Archaeology (GCRSArcheo 2022); Geodesign in Decision Making: meta planning and collaborative design for sustainable and inclusive development (GDM 2022); Geomatics in Agriculture and Forestry: new advances and perspectives (GeoForAgr 2022); Geographical Analysis, Urban Modeling, Spatial Statistics (Geog-An-Mod 2022); Geomatics for Resource Monitoring and Management (GRMM 2022); International Workshop on Information and Knowledge in the Internet of Things (IKIT 2022); 13th International Symposium on Software Quality (ISSQ 2022); Land Use monitoring for Sustainability (LUMS 2022); Machine Learning for Space and Earth Observation Data (MALSEOD 2022); Building multi-dimensional models for assessing complex environmental systems (MES 2022); MOdels and indicators for assessing and measuring the urban settlement deVELOPMENT in the view of ZERO net land take by 2050 (MOVEto0 2022); Modelling Post-Covid cities (MPCC 2022); Ecosystem Services: nature ' s contribution to people in practice. Assessment frameworks, models, mapping, and implications (NC2P 2022); New Mobility Choices For Sustainable and Alternative Scenarios (NEMOB 2022); 2nd Workshop on Privacy in the Cloud/Edge/IoT World (PCEIoT 2022); Psycho-Social Analysis of Sustainable Mobility in The Pre- and Post-Pandemic Phase (PSYCHE 2022); Processes, methods and tools towards RESilient cities and cultural heritage prone to SOD and ROD disasters (RES 2022); Scientific Computing Infrastructure (SCI 2022); Socio-Economic and Environmental Models for Land Use Management (SEMLUM 2022); 14th International Symposium on Software Engineering Processes and Applications (SEPA 2022); Ports of the future - smartness and

sustainability (SmartPorts 2022); Smart Tourism (SmartTourism 2022); Sustainability Performance Assessment: models, approaches and applications toward interdisciplinary and integrated solutions (SPA 2022); Specifics of smart cities development in Europe (SPEED 2022); Smart and Sustainable Island Communities (SSIC 2022); Theoretical and Computational Chemistry and its Applications (TCCMA 2022); Transport Infrastructures for Smart Cities (TISC 2022); 14th International Workshop on Tools and Techniques in Software Development Process (TTSDP 2022); International Workshop on Urban Form Studies (UForm 2022); Urban Regeneration: Innovative Tools and Evaluation Model (URITEM 2022); International Workshop on Urban Space and Mobilities (USAM 2022); Virtual and Augmented Reality and Applications (VRA 2022); Advanced and Computational Methods for Earth Science Applications (WACM4ES 2022); Advanced Mathematics and Computing Methods in Complex Computational Systems (WAMCM 2022).

Smart Cities in the Post-algorithmic Era Springer

Examining the changing nature of cities in the face of smart technology, this book studies key new challenges and capabilities defined by the Internet of Things, data science, blockchain and artificial intelligence. It argues that using algorithmic logic alone for automation and optimisation in modern smart cities is not sufficient, and analyses the importance of integrating this with strong participatory governance and digital platforms for community action.

Open Data Springer

This book concludes a trilogy that began with *Intelligent Cities: Innovation, Knowledge Systems and digital spaces* (Routledge 2002) and *Intelligent Cities and Globalisation of Innovation Networks* (Routledge 2008). Together these books examine intelligent cities as environments of innovation and collaborative problem-solving. In this final book, the focus is on planning, strategy and governance of intelligent cities. Divided into three parts, each section elaborates upon complementary aspects of intelligent city strategy and planning. Part I

is about the drivers and architectures of the spatial intelligence of cities, while Part II turns to planning processes and discusses top-down and bottom-up planning for intelligent cities. Cities such as Amsterdam, Manchester, Stockholm and Helsinki are examples of cities that have used bottom-up planning through the gradual implementation of successive initiatives for regeneration. On the other hand, Living PlanIT, Neapolis in Cyprus, and Saudi Arabia intelligent cities have started with the top-down approach, setting up urban operating systems and common central platforms. Part III focuses on intelligent city strategies; how cities should manage the drivers of spatial intelligence, create smart environments, mobilise communities, and offer new solutions to address city problems. Main findings of the book are related to a series of models which capture fundamental aspects of intelligent cities making and operation. These models consider structure, function, planning, strategies toward intelligent environments and a model of governance based on mobilisation of communities, knowledge architectures, and innovation cycles.

Smart Cities as Democratic Ecologies Elsevier

Untangling Smart Cities: From Utopian Dreams to Innovation Systems for a Technology-Enabled Urban Sustainability helps all key stakeholders understand the complex and often conflicting nature of smart city research, offering valuable insights for designing and implementing strategies to improve the smart city decision-making processes. The book drives the reader to a better theoretical and practical comprehension of smart city development, beginning with a thorough and systematic analysis of the research literature published to date. In addition, it provides an in-depth understanding of the entire smart city knowledge domain, revealing a deeply rooted division in its cognitive-

epistemological structure as identified by bibliometric insights. Users will find a book that fills the knowledge gap between theory and practice using case study research and empirical evidence drawn from cities considered leaders in innovative smart city practices. Provides clarity on smart city concepts and strategies Presents a systematic literature analysis on the state-of-the-art of smart cities' research using bibliometrics combined with practical applications Offers a comprehensive and systematic analysis of smart cities research produced during its first three decades Generates a strong connection between theory and practice by providing the scientific knowledge necessary to approach the complex nature of smart cities Documents five main development pathways for smart cities development, serving the needs of city managers and policymakers with concrete advice and guidance Smart Technologies for Smart Governments Edward Elgar Publishing The Routledge Companion to Smart Cities explores the question of what it means for a city to be 'smart', raises some of the tensions emerging in smart city developments and considers the implications for future ways of inhabiting and understanding the urban condition. The volume draws together a critical and cross-disciplinary overview of the emerging topic of smart cities and explores it from a range of theoretical and empirical viewpoints. This timely book brings together key thinkers and projects from a wide range of fields and perspectives into one volume to provide a valuable resource that would enable the reader to take their own critical position within the topic. To situate the topic of the smart city for the reader and establish key concepts, the volume sets out the various interpretations and aspects of what constitutes and defines smart cities. It investigates and considers the range of factors that shape the characteristics of smart cities and draws together different disciplinary perspectives. The consideration of what shapes the smart city is explored through discussing three broad 'parts' –

issues of governance, the nature of urban development and how visions are realised – and includes chapters that draw on empirical studies to frame the discussion with an understanding not just of the nature of the smart city but also how it is studied, understood and reflected upon. The Companion will appeal to academics and advanced undergraduates and postgraduates from across many disciplines including Urban Studies, Geography, Urban Planning, Sociology and Architecture, by providing state of the art reviews of key themes by leading scholars in the field, arranged under clearly themed sections.

The Age of Intelligent Cities Elsevier

The five-volume set LNCS 9786-9790 constitutes the refereed proceedings of the 16th International Conference on Computational Science and Its Applications, ICCSA 2016, held in Beijing, China, in July 2016. The 239 revised full papers and 14 short papers presented at 33 workshops were carefully reviewed and selected from 849 submissions. They are organized in five thematical tracks: computational methods, algorithms and scientific applications; high performance computing and networks; geometric modeling, graphics and visualization; advanced and emerging applications; and information systems and technologies.

Solving Urban Infrastructure Problems Using Smart City Technologies OECD Publishing

Smart city development has emerged a major issue over the past 5 years. Since the launch of IBM 's Smart Planet and CISCO 's Smart Cities and Communities programmes, their potential to deliver on global sustainable development targets have captured the public 's attention. However, despite this growing interest in the development of smart cities, little has as yet been published that either sets out the state-of-the-art, or which offers a less than subjective, arm 's length and dispassionate account of their potential contribution. This book brings together cutting edge research and the findings from technical development projects

from leading authorities within the field to capture the transition to smart cities. It explores what is understood about smart cities, playing particular attention on the governance, modelling and analysis of the transition that smart cities seek to represent. In paving the way for such a representation, the book begins to account for the social capital of smart communities and begins the task of modelling their embedded intelligence through an analysis of what the "embedded intelligence of smart cities" contributes to the sustainability of urban development. This innovative book offers an interdisciplinary perspective and shall be of interest to researchers, policy analysts and technical experts involved in and responsible for the planning, development and design of smart cities. It will also be of particular value to final year undergraduate and postgraduate students interested in Geography, Architecture and Planning.

From Intelligent to Smart Cities Bentham Science Publishers

Global cities are facing an almost unprecedented challenge of change. As they re-emerge from the Covid 19 pandemic and get ready to face climate change and other, potentially existential threats, they need to look for new ways to support wealth and wellbeing creation – leveraging Big Data and AI and suing them into their physical reality and to become greener, more inclusive and resilient, hence sustainable. This book describes how new digital technologies could be used to design digital and physical twins of cities that are able to feed into each other to optimize their working and ability to create new wealth and wellbeing. The book also describes how to increase cities ' social and economic resilience during crisis time and addressing their almost fatal weaknesses – as it became all too obvious during the recent COVID 19 crisis. Also, the book presents a framework for a critical discussion of the concept of “ smart-city ” , suggesting its development into a “ cyber ” and “ meta ” one – meaning, not only digital systems can allow

physical ones (e.g. cities, citizens, households and companies) to become “ smarter ” , but also the vice versa is true, as off line data and real life behaviours can support the optimization and development of virtual brains as a sum of big data and artificial intelligence apps all sitting “ over the cloud ” . An analysis of the fundamental dynamics of this emerging “ info-telligence ” economy, and of the potential role of big digital players like Amazon, Google and Facebook is then paving the way to discuss a few strategic forays on how traditional sectors such as financial services, real estate, TMT or health could also evolve, leveraging Big Data and AI in a cyber-physical integrated setting. Finally, a number of thought provoking use cases that could be designed around individuals, and to improve the success and the resilience of households and companies living and working in urban areas are discussed, as an example of one of the most exciting future markets to come: the one of global, sustainable cities

Sustainable Smart Cities and Smart Villages Research Springer Nature

This is the first book to show how digitalisation and the better provision of information and communication technologies (ICTs) can improve access to a wide-range of social services, as well as make them more inclusive. Overcoming disparities across social groups using contemporary digitalisation models will have lasting consequences on social well-being and human welfare. Reflecting on current trends the authors vividly illustrate the collective, global nature of the challenge that digitalisation represents for providers, administrators and users of welfare services. It is important, therefore, to bear in mind the following for research design and practice:

- Citizens' rights must be protected.
- Consideration should be given to how the services provided can be improved by more effective use of ICTs.
- Digital interventions require better service coordination in the setting of

priorities and specific training in digital skills for service providers and service users. The chapters in this book address these problems and challenges in great depth, analysing the role of ICTs in promoting social inclusion and social welfare, drawing on examples of successful ICT applications around the world. The book contains country case-studies from the United States, Brazil, India, the Republic of Korea, Taiwan, Hong Kong (China), Zimbabwe, Morocco, Spain, Portugal, Ireland and Singapore and will be of interest to all scholars and students of social policy, to social work educators, and social care providers.

Smart Cities and Innovative Urban Technologies Routledge

The exponential progress and accessibility of computing has vastly increased data flows and revolutionized the practice of science, engineering, and communication. Computing plays a critical role in advancing research across almost every scientific discipline.

Computation for Humanity: Information Technology to Advance Society is a guide for the creation of services, products, and tools that facilitate, support, and enhance progress of humanity toward more sustainable life. This book: Provides a deep understanding of the practical applications of computation to solve human-machine problems Delivers insight into theoretical approaches in an accessible manner Provides a comprehensive overview of computational science and engineering applications in selected disciplines Crosses the boundaries between different domains and shows how they interrelate and complement one another Focuses on grand challenges and issues that matter for the future of humanity Shows different perspectives of computational thinking, understanding, and reasoning Provides a basis for scientific discoveries and enables adopting scientific theories and engineering practices from other disciplines Takes a step back to

provide a human-related abstraction level that is not ultimately seen in pure technological elaborations/collections. The editors provide a collection of numerous computation-related projects that form a foundation from which to cross-pollinate between different disciplines and further extensive collaboration. They present a clear and profound understanding of computing in today's world, and provide fundamental solutions to some of the most pertinent humanity-related problems.

Computational Science and Its Applications – ICCSA 2022 Workshops
IGI Global

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.

Smart Cities, Green Technologies, and Intelligent Transport Systems
IGI Global

Smart City Citizenship provides rigorous analysis for academics and policymakers on the experimental, data-driven, and participatory processes of smart cities to help integrate ICT-related social innovation into urban life. Unlike other smart city books that are often edited

collections, this book focuses on the business domain, grassroots social innovation, and AI-driven algorithmic and techno-political disruptions, also examining the role of citizens and the democratic governance issues raised from an interdisciplinary perspective. As smart city research is a fast-growing topic of scientific inquiry and evolving rapidly, this book is an ideal reference for a much-needed discussion. The book drives the reader to a better conceptual and applied comprehension of smart city citizenship for democratised hyper-connected-virtualised post-COVID-19 societies. In addition, it provides a whole practical roadmap to build smart city citizenship inclusive and multistakeholder interventions through intertwined chapters of the book. Users will find a book that fills the knowledge gap between the purely critical studies on smart cities and those further constructive and highly promising socially innovative interventions using case study fieldwork action research empirical evidence drawn from several cities that are advancing and innovating smart city practices from the citizenship perspective. Utilises ongoing, action research fieldwork, comparative case studies for examining current governance issues, and the role of citizens in smart cities. Provides definitions of new key citizenship concepts, along with a techno-political framework and toolkit drawn from a community-oriented perspective. Shows how to design smart city governance initiatives, projects and policies based on applied research from the social innovation perspective. Highlights citizen's perspective and social empowerment in the AI-driven and algorithmic disruptive post-COVID-19 context in both transitional and experimental frameworks.
Smart Cities Routledge

Professionals in the construction industry must respond quickly to meet the increasing pressures of heightened urban migration, and provide sustainable alternatives to resource scarcity in established cities – Smart Cities offers solutions to the demands of rising

urban populations.

Computation for Humanity Springer Nature

This open access book offers a selection of research papers and case studies presented at the 3rd international conference "Smart and Sustainable Planning for Cities and Regions", held in December 2019 in Bolzano, Italy, and explores the concept of smart and sustainable planning, including top contributions from academics, policy makers, consultants and other professionals. Innovation processes such as co-design and co-creation help establish collaborations that engage with stakeholders in a trustworthy and transparent environment while answering the need for new value propositions. The importance of an integrated, holistic approach is widely recognized to break down silos in local government, in particular, when aimed at achieving a better integration of climate-energy planning. Despite the ongoing urbanization and polarization processes, new synergies between urban and rural areas emerge, linking development opportunities to intrinsic cultural, natural and man-made landscape values. The increasing availability of big, real-time urban data and advanced ICT facilitates frequent assessment and continuous monitoring of performances, while allowing fine-tuning as needed. This is valid not only for individual projects but also on a wider scale. In addition, and circling back to the first point, (big) urban data and ICT can be of enormous help in facilitating engagement and co-creation by raising awareness and by providing insight into the local consequences of specific plans. However, this potential is not yet fully exploited in standard processes and procedures, which can therefore lack the agility and flexibility to keep up with the pulse of the city and dynamics of society. The book provides a multi-disciplinary outlook based on experience to orient the reader in the giant galaxy of smart and sustainable planning, support the transposition of research into practice, scale up visionary approaches and design groundbreaking planning policies and tools.--

Smart and Sustainable Planning for Cities and Regions Springer
Nature

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.