



Smart Cities

A Spatialised
Intelligence

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Smart Cities Spatialised Intelligence Architectural Ebook

Pethuru Raj, Anupama C. Raman



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Smart Cities Antoine Picon, 2015-11-16 As cities compete globally the Smart City has been touted as the important new strategic driver for regeneration and growth Smart Cities are employing information and communication technologies in the quest for sustainable economic development and the fostering of new forms of collective life This has made the Smart City an essential focus for engineers architects urban designers urban planners and politicians as well as businesses such as CISCO IBM and Siemens Despite its broad appeal few comprehensive books have been devoted to the subject so far and even fewer have tried to relate it to cultural issues and to assume a truly critical stance by trying to decipher its consequences on urban space and experience This cultural and critical lens is all the more important as the Smart City is as much an ideal permeated by Utopian beliefs as a concrete process of urban transformation This ideal possesses a strong self fulfilling character our cities will become Smart because we want them to This book opens with an examination of the technological reality on which Smart Cities are built from the chips and sensors that enable us to monitor what happens within the infrastructure to the smartphones that connect individuals Through these technologies the urban space appears as activated almost sentient This activation generates two contrasting visions on the one hand a neo cybernetic ambition to steer the city in the most efficient way and on the other a more bottom up participative approach in which empowered individuals invent new modes of cooperation A thorough analysis of these two trends reveals them to be complementary The Smart City of the near future will result from their mutual adjustment In this process urban space plays a decisive role Smart Cities are contemporary with a spatial turn of the digital Based on key technological developments like geo localisation and augmented reality the rising importance of space explains the strategic role of mapping in the evolution of the urban experience Throughout this exploration of some of the key dimensions of the Smart City this book constantly moves from the technological to the spatial as well as from a critical assessment of existing experiments to speculations on the rise of a new form of collective intelligence In the future cities will become smarter in a much more literal way than what is often currently assumed

From Intelligent to Smart Cities Mark Deakin, Husam Al Waer, 2012-07-05 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

Smart Cities Schahram Dustdar, Stefan Nastić, Ognjen Šćekić, 2017-05-28 This book presents a coherent novel vision of Smart Cities built around a value driven architecture It describes the limitations of the

contemporary notion of the Smart City and argues that the next developmental step must actively include not only the physical infrastructure but information technology and human infrastructure as well requiring the intensive integration of technical solutions from the Internet of Things IoT and social computing The book is divided into five major parts the first of which provides both a general introduction and a coherent vision that ties together all the components that are required to realize the vision for Smart Cities Part II then discusses the provisioning and governance of Smart City systems and infrastructures In turn Part III addresses the core technologies and technological enablers for managing the social component of the Smart City platform Both parts combine state of the art research with cutting edge industrial efforts in the respective fields Lastly Part IV details a road map to achieving Cyber Human Smart Cities Rounding out the coverage it discusses the concrete technological advances needed to move beyond contemporary Smart Cities and toward the Smart Cities of the future Overall the book provides an essential overview of the latest developments in the areas of IoT and social computing research and outlines a research roadmap for a closer integration of the two areas in the context of the Smart City As such it offers a valuable resource for researchers and graduate students alike **Smart Cities** Mark Deakin, 2013-08-22

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 paying 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 Smart Cities and Smart Spaces: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2018-09-07 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

Intelligent Cities Pethuru Raj, Anupama C. Raman, 2015-06-23 The emergence of highly promising and potent technologies has enabled the transition of ordinary objects into smart artifacts providing wider connectivity of digitized entities that can facilitate the building of connected cities This book provides readers with a solid foundation on the latest technologies and tools required to develop and enhance smart cities around the world The book begins by examining the rise of the cloud as the fundamental technology for establishing and sustaining smart cities and enterprises Explaining the principal technologies and platform solutions for implementing intelligent cities the book details the role of various technologies standards protocols and tools in establishing flexible homes and the buildings of the future Examines IT platforms and tools from various product vendors Considers service oriented architecture and event driven architecture for smart city applications Explains how to leverage big data analytics for smart city enhancement and improved decision making Includes case studies of intelligent cities smart homes buildings transports healthcare systems and airports The authors explore the convergence of cloud computing and enterprise architecture and present valuable information on next generation cloud computing They also cover the various architectural types including enterprise scale integration security management and governance The book concludes by explaining the various security requirements of intelligent cities as well as the threats and vulnerabilities of the various components that form the basis of the intelligent city framework including cloud big data Internet of Things and mobile technologies

Visibilities and Invisibilities in Smart Cities: Emerging Research and Opportunities McKenna, H. Patricia, 2021-06-11 Throughout history humanity has sought the betterment of its communities In the 21st century humanity has technology on its side in the process of improving its cities Smart cities make their improvements by gathering real world data in real time Still there are many complexities that many do not catch they are invisible It is important to understand how people make sense at the urban level and in extra urban spaces of the combined complexities of invisibilities and visibilities in their environments interactions and infrastructures enabled through their own enhanced awareness together with aware technologies that are often embedded pervasive and ambient This book probes the visible and invisible dimensions of emerging understandings of smart cities and regions in the context of more aware people interacting with each other and through more aware and pervasive technologies Visibilities and Invisibilities in Smart Cities Emerging Research and Opportunities contributes to the research literature for urban theoretical spaces methodologies and applications for smart and responsive cities the evolving of urban theory and methods for 21st century cities and urbanities and the formulation of a conceptual framework for associated methodologies and theoretical spaces This work explores the relationships between variables using a case study approach combined with an explanatory correlational

design It is based on an urban research study conducted from mid 2015 to mid 2020 that spanned multiple countries across three continents The book is split into four sections introduction to the concepts of visible and invisible frameworks for understanding the interplay of the two concepts associated and evolving theory and methods and extending current research as opportunities in smart city environments and regions Covering topics including human geography smart cities and urban planning this book is essential for urban planners designers city officials community agencies business managers and owners academicians researchers and students including those who work across multiple domains such as architecture environmental design human computer interaction human geography information technology sociology and affective computing

Smart Cities and Connected Intelligence Nicos Komninos, 2019-12-05 Internet and World Wide Web platforms big data analytics software social media and civic technologies allow for the creation of smart ecosystems in which connected intelligence emerges and disruptive social and eco innovation flourishes This book focuses on three grand challenges that matter for any territory no matter where it is located i smart growth a path that more and more cities regions and countries are adopting having realised the unlimited potential of growth that is based on knowledge innovation and digital technologies ii safety and security which is a pre requisite for quality of life in a world of intense social natural and technological threats and iii sustainability use of renewable energy protection of living ecosystems addressing climate change and global warming in a period of rapid urbanisation that makes established sustainability models and planning patterns quickly obsolete The core argument of the book is that problem solving and novel solutions to these grand challenges emerge in smart ecosystems through connected intelligence It is the broadest form of intelligence that combines capabilities from heterogeneous actors humans organisations machines and propel problem solving through externalities and resource agglomeration user engagement and collaboration awareness and behaviour change This book will be of interest to students and researchers of urban and regional studies innovation studies economic geography and urban planning as well as urban policy makers

Smart and Sustainable Cities and Buildings Rob Roggema, Anouk Roggema, 2020-05-11 This book brings together the papers presented at the Smart and Sustainable Built Environments Conference 2018 SASBE This latest research falls into two tracks smart and sustainable design and planning cities and the technicalities of smart and sustainable buildings The growth of smart cities is evident but not always linked to sustainability This book gives an overview of the latest academic developments in increasing the smartness and sustainability of our cities and buildings Aspects such as inclusivity smart cities place and space the resilient city urbanity and urban ecology are prominently featured in the design and planning part of the book while energy educational buildings comfort building design construction and performance form the sub themes of the technical part of the book This book will appeal to urban designers architects urban planners smart city designers and sustainable building experts

Computational Intelligence Techniques for Green Smart Cities Mohamed Lahby, Ala Al-Fuqaha, Yassine Maleh, 2022-04-22 This book contains high quality and original research on computational intelligence for

green smart cities research In recent years the use of smart city technology has rapidly increased through the successful development and deployment of Internet of Things IoT architectures The citizens quality of life has been improved in several sensitive areas of the city such as transportation buildings health care education environment and security thanks to these technological advances Computational intelligence techniques and algorithms enable a computational analysis of enormous data sets to reveal patterns that recur This information is used to inform and improve decision making at the municipal level to build smart computational intelligence techniques and sustainable cities for their citizens Machine intelligence allows us to identify trends patterns The smart city could better integrate its transportation network for example By offering a better public transportation network adapted to the demand we could reduce personal vehicles and energy consumption A smart city could use models to predict the consequences of a change such as pedestrianizing a street or adding a bike lane A city can even create a 3D digital twin to test hypothetical projects This book comprises many state of the art contributions from scientists and practitioners working in machine intelligence and green smart cities It aspires to provide a relevant reference for students researchers engineers and professionals working in this area or those interested in grasping its diverse facets and exploring the latest advances in machine intelligence for green and sustainable smart city applications

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