Smart Lighting Solutions For Smart Cities

Leon Strous,Vinton G. Cerf

Smart Lighting Solutions For Smart Cities:

    Immersive Technology in Smart Cities Sagaya Aurelia,Sara Paiva,2021-07-07 This book presents recent trends and enhancements in the convergence of immersive technology and smart cities The authors discuss various domains such as medical education construction brain interface interactive storytelling edification and journalism in relation to combining smart cities IoT and immersive technologies The book sets up a medium to promulgate insights and in depth understanding among experts in immersive technologies IoT HCI and associated establishments The book also includes case studies survey models algorithms frameworks and implementations in storytelling smart museum medical education journalism and more Various practitioners academicians and researchers in the domain contribute to the book   **Artificial Intelligence for Smart Cities and Villages: Advanced Technologies, Development, and Challenges** Megha Bhushan,Sailesh Iyer,Ashok Kumar,Tanupriya Choudhury,Arun Negi,2022-08-15 Smart cities and villages have enhanced the quality of lives of residents Various computer assisted technologies have been harnessed for the development of smart cities and villages in order to provide solutions for common and niche urban problems The development of smart environments has been possible due on advances in computing power and artificial intelligence AI that have allowed the deployment of scalable technologies Artificial Intelligence for Smart Cities and Smart Villages Advanced Technologies Development and Challenges summarizes the role of AI in planning and designing smart solutions for urban and rural environments This book is divided into three sections to impart a better understanding of the topics to readers These sections are 1 Demystifying smart cities and villages A traditional perspective 2 Smart innovations for rural lifestyle management solutions and 3 Case studies Through this book readers will be able to understand various advanced technologies that are vital to the development of smart cities and villages The book presents 15 chapters that present effective solutions to urban and rural challenges Concepts highlighted in chapters include smart farms indoor object classification systems smart transportation blockchains for medical information humanoid robots for rural education IoT devices for farming and much more This book is intended for undergraduate and graduate engineering students across all disciplines security providers in the IT and related fields and trainees working for infrastructure management companies Researchers and consultants at all levels working in the areas of artificial intelligence machine learning IoT blockchain network security and cloud computing will also find the contents beneficial in planning projects involving smart environments   *Intelligent Cities* Pethuru Raj,Anupama C. Raman,2015-06-15 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 *Nanosensors for Smart Cities* Baoguo Han,Vijay Tomer,Tuan Anh Nguyen,Ali Farmani,Pradeep Kumar Singh,2020-02-13 Nanosensors for Smart Cities covers the fundamental design concepts and emerging applications of nanosensors for the creation of smart city infrastructures Examples of major applications include logistics management where nanosensors could be used in active transport tracking devices for smart tracking and tracing and in agri food productions where nanosensors are used in nanochips for identity and food inspection and smart storage This book is essential reading for researchers working in the field of advanced sensors technology smart city technology and nanotechnology and stakeholders involved in city management Nanomaterials based sensors nanosensors can offer many advantages over their microcounterparts including lower power consumption high sensitivity lower concentration of analytes and smaller interaction distance between object and sensor With the support of artificial intelligence AI tools such as fuzzy logic genetic algorithms neural networks and ambient intelligence sensor systems are becoming smarter Provides information on the fabrication and fundamental design concepts of nanosensors for intelligent systems Explores how nanosensors are being used to better monitor and maintain infrastructure services including street lighting traffic management and pollution control Assesses the challenges for creating nanomaterials enhanced sensors for mass market consumer products **Smart Cities and Smart Communities** Srikanta Patnaik,Siddhartha Sen,Sudeshna Ghosh,2022-05-28 Smart City programs and strategies have become one of the most dominant urban agendas for local governments worldwide in the past two decades The rapid urbanization rate and unprecedented growth of megacities in the 21st century triggered drastic changes in traditional ways of urban policy and planning leading to an influx of digital technology applications for fast and efficient urban management With the rising popularity in making our cities smart several domains of urban management urban infrastructure and urban quality of life have seen increasing dependence on advanced information and communication technologies ICTs that optimize and control the day to day functioning of urban systems Smart Cities essentially act as digital networks that obtain large scale real time data on urban systems process them and make decisions on how to manage them efficiently The book presents 26 chapters

which are organized around five topics 1 Conceptual framework for smart cities and communities 2 Technical concepts and models for smart city and communities 3 Civic engagement and citizen participation 4 Case studies from the Global North and 5 Case studies from the Global South   Building Smarter Cities Rajendra Asan,2025-01-07 The illustrations in this book are created by Team Educohack The concept of smart cities might seem simple in theory but in practice it is quite complex This book aims to clear up any confusion surrounding the term and emphasizes the need for sustainable development in smart cities With 11 chapters we explore social issues smart digital services and infrastructural changes essential for implementing a smart city model We highlight the importance of active citizen engagement in the rapid urbanization process which is crucial for the overall development of cities By understanding and addressing social concerns we can create smarter more sustainable urban environments   Unlocking the Strategic Use of Public Procurement in Bratislava, Slovak Republic OECD,2021-12-09 Subnational governments carry out more than 60% of total public procurement in OECD countries As such public procurement can offer a powerful tool for cities to boost local growth and advance their strategic priorities ranging from innovation and inclusion to the transition to a low carbon economy   Internet of Things: Enabling Technologies, Security and Social Implications Santosh Kumar Pani,Manjusha Pandey,2021-01-13 This edited book presents point of view and the work being undertaken by active researchers in the domain of IOT and its applications with societal impact The book is useful to other researchers for the understanding of the research domain and different points of views expressed by the experts in their contributed chapters The contributions are from both industry and academia hence it provides a rich source of both theoretical and practical work going on in the research domain of IOT   Internet of Things. Information Processing in an Increasingly Connected World Leon Strous,Vinton G. Cerf,2019-03-19 This open access book constitutes the refereed post conference proceedings of the First IFIP International Cross Domain Conference on Internet of Things IFIPIoT 2018 held at the 24th IFIP World Computer Congress WCC 2018 in Poznan Poland in September 2018 The 12 full papers presented were carefully reviewed and selected from 24 submissions Also included in this volume are 4 WCC 2018 plenary contributions an invited talk and a position paper from the IFIP domain committee on IoT The papers cover a wide range of topics from a technology to a business perspective and include among others hardware software and management aspects process innovation privacy power consumption architecture applications   ASEAN Smart Cities Network Centre for Liveable Cities, Singapore,2018 The advent of the Fourth Industrial Revolution has enabled ASEAN home to some of the fastest growing cities in the world to exploit smart solutions to manage some of the challenges that have emerged owing to rapid urbanisation The ASEAN Smart Cities Network is a collaborative platform where ASEAN cities can learn from one another s experiences in adopting smart technology identifying solutions and more importantly engage industry and global partners as all work towards the common goal of making urban development sustainable and their cities liveable This publication provides insights into ASEAN s vision of a smart city as articulated in the ASEAN Smart CIties Framework

endorsed by the 10 ASEAN member states It highlights some of the smart city action plans that have been formulated by the 26 pioneer cities in the network and in some cases already translated into tangible projects for the benefit of generations to come Back cover   *Advanced Materials and Application Technologies* Chafic-Touma Salame,2021-05-18 Special topic volume with invited peer reviewed papers only   **ASEAN Sustainable Urbanisation Strategy** ,2018   Light ,1927

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