

journal of smart cities and society

Journal of Smart Cities and Society: Exploring the Future of Urban Living

journal of smart cities and society serves as a vital resource for researchers, urban planners, policymakers, and technology enthusiasts who are passionate about the transformation of urban environments through innovative technologies. As cities around the world face increasing challenges such as population growth, environmental concerns, and infrastructure demands, the role of smart city initiatives has never been more crucial. This journal offers an in-depth look into how technology, data, and social dynamics converge to create smarter, more sustainable cities.

Understanding the Journal of Smart Cities and Society

The journal of smart cities and society is an academic publication that focuses on the intersection of urban development and cutting-edge technology. It covers a broad range of topics including Internet of Things (IoT) applications, big data analytics, sustainable urban planning, and citizen engagement in smart city projects. Unlike traditional urban studies journals, this publication emphasizes the societal impacts and technological advancements that redefine how cities operate and how residents interact with their environments.

By regularly publishing peer-reviewed articles, case studies, and reviews, the journal provides a platform for sharing innovative research findings and practical solutions. It bridges the gap between theory and practice, helping cities around the globe implement smart technologies that improve quality of life, optimize resource use, and foster economic growth.

Key Themes Explored in the Journal of Smart Cities and Society

Technological Innovations in Urban Spaces

One of the core focuses of the journal is the role of emerging technologies in shaping smart cities. Topics such as IoT sensors, artificial intelligence (AI), machine learning, and blockchain are frequently discussed. These technologies enable cities to collect real-time data on traffic patterns, energy consumption, air quality, and public safety. For instance, smart traffic management systems powered by AI can reduce congestion and lower

emissions, while blockchain applications can enhance digital security and transparency in city governance.

Sustainability and Environmental Impact

Sustainability is a recurring theme in the journal of smart cities and society. Articles often explore how smart city initiatives contribute to environmental conservation and climate resilience. This includes energy-efficient building designs, renewable energy integration, waste management innovations, and water conservation techniques. By examining case studies from cities implementing green technologies, the journal highlights best practices and challenges faced in achieving sustainable urban ecosystems.

Social Inclusion and Citizen Engagement

A truly smart city is one that benefits all its residents. The journal emphasizes the importance of social inclusion, digital equity, and community participation in smart city projects. It explores how technology can be used to empower marginalized groups, improve public services, and promote transparent governance. For example, mobile apps that allow citizens to report infrastructure issues or participate in decision-making processes foster greater community involvement and trust.

Why the Journal of Smart Cities and Society Matters

In today's rapidly evolving urban landscape, the journal is indispensable for those looking to stay ahead of trends and challenges. It offers insights into how interdisciplinary approaches combine technology, policy, and social sciences to solve complex urban problems. Whether you're a city official aiming to implement smart infrastructure or a researcher studying urban informatics, the journal provides valuable knowledge and inspiration.

Additionally, the journal supports the global dialogue on smart cities by highlighting diverse geographic perspectives. From high-tech metropolitan hubs in Asia and Europe to emerging smart city projects in Africa and Latin America, the publication showcases a rich tapestry of innovations and lessons learned worldwide.

How to Get the Most Out of the Journal of Smart

Cities and Society

For Researchers and Academics

Engaging with the journal offers researchers a chance to publish their work in a respected venue and gain exposure to the latest studies in the field. To maximize benefits:

- Stay updated on calls for papers to contribute your original research.
- Utilize the journal's comprehensive literature reviews to frame your own studies.
- Network with authors and editors to collaborate on interdisciplinary projects.

For Urban Planners and Policymakers

The journal provides actionable insights that can inform policy and planning decisions:

- Analyze case studies to understand successful smart city implementations.
- Adopt evidence-based strategies for integrating technology with urban infrastructure.
- Learn about citizen engagement tools that improve public participation in governance.

For Technology Developers and Entrepreneurs

Innovators can benefit by keeping abreast of emerging trends and identifying market needs:

- Discover gaps in existing smart city technologies to guide product development.

- Understand regulatory and societal factors influencing technology adoption.
- Explore partnership opportunities with city governments and academic institutions.

Emerging Trends Highlighted in the Journal

As smart cities evolve, the journal of smart cities and society frequently covers groundbreaking trends that shape urban futures:

Edge Computing and Data Privacy

With vast amounts of data generated by smart city devices, edge computing is becoming crucial to process information locally and reduce latency. The journal discusses innovations in edge networks and their implications for data security and privacy—critical concerns as cities become more connected.

AI-Driven Urban Planning

Artificial intelligence is revolutionizing urban design by enabling predictive analytics and scenario modeling. Articles in the journal illustrate how AI helps planners optimize land use, transportation systems, and emergency response strategies, enhancing city resilience.

Digital Twins and Virtual City Models

The concept of digital twins—virtual replicas of physical urban environments—receives significant attention. These models allow stakeholders to simulate changes and evaluate impacts before implementation, leading to smarter decision-making and reduced risks.

The Role of Interdisciplinary Research in Smart Cities

One of the unique strengths of the journal of smart cities and society is its commitment to interdisciplinary collaboration. Smart cities are complex systems where technology, social behavior, economics, and environment intertwine. The journal encourages submissions that combine engineering,

urban studies, sociology, environmental science, and public policy.

This approach fosters holistic solutions that are not only technically feasible but also socially equitable and environmentally sustainable. It recognizes that smart city challenges cannot be solved by any single discipline and that integrating diverse perspectives leads to more effective outcomes.

By nurturing this collaborative mindset, the journal helps build a community of experts dedicated to reimagining urban life and addressing the pressing challenges of the 21st century.

Whether you are deeply involved in the development of smart city technologies or simply curious about how cities can become more responsive and sustainable, the journal of smart cities and society is a treasure trove of knowledge. It captures the dynamic intersection of innovation and society, offering inspiration and practical guidance for shaping better urban futures.

Frequently Asked Questions

What is the focus of the Journal of Smart Cities and Society?

The Journal of Smart Cities and Society focuses on research and developments related to smart city technologies, sustainable urban development, and the integration of digital solutions to improve societal living conditions.

Is the Journal of Smart Cities and Society peer-reviewed?

Yes, the Journal of Smart Cities and Society is a peer-reviewed academic journal ensuring the quality and credibility of published research articles.

What types of articles are published in the Journal of Smart Cities and Society?

The journal publishes original research papers, review articles, case studies, and technical notes related to smart city initiatives, urban informatics, IoT applications, and societal impacts of smart technologies.

How can researchers submit their work to the Journal of Smart Cities and Society?

Researchers can submit their manuscripts through the journal's official

online submission system, following the provided author guidelines and formatting requirements available on the journal's website.

Does the Journal of Smart Cities and Society cover interdisciplinary studies?

Yes, the journal encourages interdisciplinary research that combines urban planning, computer science, engineering, social sciences, and environmental studies to address smart city challenges.

Where can I access articles from the Journal of Smart Cities and Society?

Articles from the Journal of Smart Cities and Society can be accessed through academic databases, the publisher's website, or institutional subscriptions, and some articles may be available via open access.

Additional Resources

Journal of Smart Cities and Society: A Critical Review of Its Role in Urban Innovation

journal of smart cities and society stands as a pivotal publication in the evolving field of urban innovation and technological integration. As cities worldwide grapple with rapid urbanization, environmental challenges, and the demand for enhanced livability, this journal provides a crucial platform for interdisciplinary research, policy analysis, and technological advancements. This article delves into the scope, impact, and relevance of the Journal of Smart Cities and Society, assessing its contribution to both academia and practical urban development.

Understanding the Journal of Smart Cities and Society

The Journal of Smart Cities and Society is a peer-reviewed academic journal that focuses on the intersection of technology, urban planning, and societal development. It covers a broad spectrum of subjects including smart infrastructure, Internet of Things (IoT) applications, urban data analytics, sustainability, and governance models in smart cities. The journal aims to bridge the gap between theoretical research and real-world applications, offering insights into how smart city concepts can transform urban living.

Since the inception of smart city initiatives around the early 21st century, there has been an increasing need for scholarly outlets that address the complexities of integrating digital technologies into urban environments. The

journal responds to this demand by publishing empirical studies, case reports, policy reviews, and technological evaluations that examine the implications of deploying smart solutions in cities of varying scales and geographies.

Scope and Thematic Focus

The Journal of Smart Cities and Society covers a diversified range of topics that reflect the multidisciplinary nature of smart city research:

Technological Innovations in Smart Cities

This journal extensively explores advanced technologies such as IoT networks, artificial intelligence (AI), big data analytics, and sensor systems. These technologies underpin many smart city functions, including intelligent transportation systems, energy management, and public safety enhancements. For example, articles often analyze how IoT-enabled sensors improve real-time monitoring of urban infrastructure, enabling proactive maintenance and reducing operational costs.

Urban Planning and Sustainability

Sustainability remains a core concern in smart city development, and the journal dedicates significant attention to innovative urban planning strategies that promote environmental resilience. Discussions frequently focus on green infrastructure, renewable energy integration, and sustainable mobility solutions. The journal's research contributes to understanding how smart cities can reduce carbon footprints while enhancing the quality of life for residents.

Social and Governance Dimensions

Beyond technology, the journal emphasizes the societal and governance aspects of smart cities. This includes examining citizen engagement, data privacy, policy frameworks, and ethical considerations. Articles often investigate how inclusive governance models and participatory planning can foster trust and ensure equitable access to smart city benefits.

Impact and Relevance in the Field

The Journal of Smart Cities and Society holds substantial influence among

researchers, urban planners, policymakers, and industry stakeholders. Its interdisciplinary approach encourages collaboration across sectors, fostering a nuanced understanding of smart city challenges and opportunities.

Contribution to Research and Policy

By publishing cutting-edge research, the journal supports evidence-based policymaking. For instance, recent studies on smart transportation systems have informed city governments on optimizing traffic flow and reducing emissions. Additionally, policy analyses provide frameworks for regulating data use and protecting citizen privacy in increasingly connected urban environments.

Global Coverage and Diversity

The journal features case studies and research from diverse geographical contexts, reflecting the global nature of smart city initiatives. This broad coverage allows readers to compare implementation strategies across developed and developing nations, highlighting best practices and common pitfalls. Such comparative analyses are invaluable for cities seeking to adapt smart technologies to their unique social and economic conditions.

Strengths and Challenges

While the Journal of Smart Cities and Society offers comprehensive insights, it also faces challenges inherent to the fast-paced and interdisciplinary nature of the field.

Strengths

- **Interdisciplinary Approach:** By integrating technology, social sciences, and urban studies, the journal provides holistic perspectives.
- **Timely and Relevant Research:** It frequently publishes on emerging technologies and current urban challenges.
- **High Academic Standards:** Rigorous peer review ensures quality and credibility.

Challenges

- **Rapid Evolution of Technology:** The fast-changing smart city technologies require constant updating of research focuses.
- **Balancing Theoretical and Practical Content:** Addressing both academic rigor and practical applicability can be complex.
- **Accessibility:** As with many academic journals, access may be limited for practitioners and smaller municipalities without institutional subscriptions.

Future Directions and Emerging Trends

The Journal of Smart Cities and Society is poised to play an even more critical role as urban centers advance toward more integrated and data-driven futures. Emerging trends such as the integration of 5G networks, edge computing, and digital twins are likely to feature prominently in upcoming research. Moreover, increasing attention to social equity, climate resilience, and cybersecurity will shape the journal's content, reflecting broader societal priorities.

As cities evolve, the journal's commitment to fostering dialogue between technologists, policymakers, and citizens will remain essential. Its role in disseminating interdisciplinary knowledge helps ensure that smart city developments contribute positively to sustainable urban futures.

The Journal of Smart Cities and Society thus stands as both a repository of current knowledge and a catalyst for innovation, supporting the global movement toward smarter, more inclusive cities.

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journal of smart cities and society: Digital Twin, Blockchain, and Sensor Networks in the Healthy and Mobile City Tuan Anh Nguyen, 2025-02-28 In smart cities, information and communication technologies are integrated to exchange real-time data between citizens,

governments, and organizations. Blockchain provides security for communication and transactions between multiple stakeholders. Digital twin refers to a simulation of physical products in a virtual space. This simulation fully utilizes the physical models, wireless sensor networks, and historical data of city operation to integrate big information (digital twin cities) under multidiscipline, multiphysical quantities, multiscale, and multiprobability. Digital Twin, Blockchain, and Sensor Networks in the Healthy and Mobile City explores how digital twins and blockchain can be used in smart cities. Part 1 deals with their promising applications for healthy cities. Part 2 covers other promising applications and current perspectives of blockchain and digital twins for future smart society and smart city mobility. Together with its companion volume, Digital Twin and Blockchain for Sensor Networks in Smart Cities, this book helps to understand the vast amount of data around the city to encourage happy, healthy, safe, and productive lives.

- Describes the fundamentals of blockchain and digital twin
- Explores how blockchain and digital twin work with smart sensor networks
- Discusses how future technologies can benefit the healthcare of everyday lives
- Explains how intelligent sensor networks can be used in a healthy and mobile city

journal of smart cities and society: Journal of Contemporary Urban Affairs Vol.5 No. 1., 2021
 Aysel Yavuz, Dr., Nihan Canbakal Ataoğlu, Dr., Habibe Acar, Dr., Dr. Usama Abd Elhameed Nassar., M.Sc. Marjan Sansen, Dr. Andrés Martínez, Dr. Philippe Devillers., Dr. Oluwafemi K. Akande., Dr. Didem Gunes Yilmaz., PhD Candidate. Burcu Ülker , Prof. Dr. Alaattin Kanoğlu, Prof. Dr. Özlem Özçevik., Ph.D. Candidate James Kanyepe, Prof. Dr. Marian Tukuta, Prof. Dr. Innocent Chirisa., Professor Dr. Maged Attia., Associate Professor Dr. Corinna Rossi, Sara Rabie., Dr. Igor Calzada., 2021-06-30 Urban Acupuncture in Large Cities: Filtering Framework to Select Sensitive Urban Spots in Riyadh for Effective Urban Renewal Dr. Usama Abd Elhameed Nassar 1-18 HTML PDF XML Mediterranean Morphologies in Hot Summer Conditions: Learning from France's "Glorious Thirty" Holiday Housing M.Sc. Marjan Sansen, Dr. Andrés Martínez, Dr. Philippe Devillers 19-34 PDF HTML XML Urbanization, Housing Quality and Health: Towards a Redirection for Housing Provision in Nigeria Dr. Oluwafemi K. Akande 35-46 PDF HTML XML Model Cities for Resilience: Climate-led Initiatives Dr. Didem Gunes Yilmaz 47-58 PDF HTML XML SIMURG_CITIES: Meta-Analysis for KPI's of Layer-Based Approach in Sustainability Assessment PhD Candidate. Burcu Ülker , Prof. Dr. Alaattin Kanoğlu, Prof. Dr. Özlem Özçevik 59-76 PDF HTML XML Urban Land-use and Traffic Congestion: Mapping the Interaction Ph.D. Candidate James Kanyepe, Prof. Dr. Marian Tukuta, Prof. Dr. Innocent Chirisa 77-84 PDF HTML XML Enhancing Security in Affordable Housing: The Case of Prince Fawaz Project Professor Dr. Maged Attia 85-100 PDF HTML XML Towards the Egyptian Charter for Conservation of Cultural Heritages Associate Professor Dr. Corinna Rossi, Sara Rabie 101-111 PDF HTML XML Book Reviews Book Review: Smart City Citizenship Dr. Igor Calzada 113-118 PDF HTML XML

journal of smart cities and society: Advances in the Leading Paradigms of Urbanism and their Amalgamation Simon Elias Bibri, 2020-06-20 This book explores the recent advances in the leading paradigms of urbanism, namely compact cities, eco-cities, and data-driven smart cities, and the evolving approach to their amalgamation under the umbrella term of smart sustainable cities. It addresses these advances by investigating how and to what extent the strategies of compact cities and eco-cities and their merger have been enhanced and strengthened through new planning and development practices, and are being supported and leveraged by the applied solutions pertaining to data-driven smart cities. The ultimate goal is to advance sustainability and harness its synergistic effects on multiple scales. This entails developing and implementing more effective approaches to the balanced integration of the three dimensions of sustainability, as well as to producing combined effects of the strategies and solutions of the prevailing approaches to urbanism that are greater than the sum of their separate effects in terms of the tripartite value of sustainability. Sustainable urban development is today seen as one of the keys towards unlocking the quest for a sustainable world. And the big data revolution is set to erupt in cities throughout the world, heralding an era where instrumentation, datafication, and computation are increasingly pervading the very fabric of cities and the spaces we live in thanks to the IoT. Big data and the IoT technologies are seen as powerful

forces that have tremendous potential for advancing urban sustainability. Indeed, they are instigating a massive change in the way sustainable cities can tackle the kind of special conundrums, wicked problems, and significant challenges they inherently embody as complex systems. They offer a multitudinous array of innovative solutions and sophisticated approaches informed by groundbreaking research and data-driven science. As such, they are becoming essential to the functioning of sustainable cities. Besides, yet knowing to what extent we are making progress towards sustainable cities is problematic, adding to the fragmented, conflicting picture that arises of change on the ground in the face of the escalating rate and scale of urbanization and in the light of emerging ICT and its novel applications. In a nutshell, new circumstances require new responses. This timely and multifaceted book is intended for a wide readership. As such, it will appeal to researchers, academics, urban scientists, urbanists, planners, designers, policy-makers, and futurists, as well as all readers interested in sustainable cities and their ongoing and future data-driven transformation.

journal of smart cities and society: Sustainable Smart Cities and the Future of Urban Development Al-Humairi, Safaa Najah Saud, Hajamydeen, Asif Iqbal, Mahfoudh, Asmaa, 2024-12-05 As global urbanization continues to accelerate, smart cities emerge as a strategy to address the complexities of modern urban life. These cities invest in human and social capital, communication, infrastructure, and technology to drive sustainable economic growth and ensure a high quality of life. Participatory governance plays a crucial role in managing natural and man-made resources effectively. Driven by a growing global population and a pressing need to address environmental concerns, the concept of a “smart city” has emerged as a potential solution. *Sustainable Smart Cities and the Future of Urban Development* delves into the exciting intersection of sustainable development and smart city technologies, exploring how these forces can be harnessed to shape a more livable and resilient future for our urban environments. Through a multidisciplinary lens, this book explores the concept of sustainable smart cities by elucidating their fundamental characteristics and components. Covering topics such as artificial intelligence (AI), renewable energy, and waste management, this book is an excellent resource for urban planners, architects, technology developers, innovators, community leaders, industry professionals, academicians, researchers, and more.

journal of smart cities and society: The Emerald Handbook of Smart Cities in the Gulf Region Miltiadis D. Lytras, Afnan Alkhalidi, Sawsan Malik, 2024-11-22 This definitive reference edition uniquely integrates urban planning, advanced computational, and government policy-making aspects, with a focus on disseminating the momentum of Smart Cities Research in the Gulf Region.

journal of smart cities and society: Advancing Smart Cities Simon Elias Bibri, Anna Visvizi, Orlando Troisi, 2024-03-22 This book presents a comprehensive exploration of the transformative journey toward smart cities and the implementation of cutting-edge technologies in urban development. Divided into four distinct parts, it covers a broad range of topics that contribute to sustainable, efficient, and innovative urban living. Encompassing diverse research from IEREK's Future Smart Cities (FSC) conference, it focuses on smart city advancement through sustainable practices, digital transformation, and IoT integration. Covering topics such as smart buildings, urban planning during pandemics, and IoT applications in health care and agriculture, this book shapes the future of urban living. It delves further into opportunities in city regeneration, human-centric smart design, IoT data effectiveness, and more. A valuable resource for academics, researchers, and policymakers, it offers insights into telecommunications, AI, smart manufacturing, and methodologies for urban ecosystem improvement.

journal of smart cities and society: Smart Cities Pier Luigi Mazzeo, Paolo Spagnolo, 2024-10-02 In a rapidly urbanizing world, the concept of “smart cities” represents the future of urban living. These cities aim to harness advanced technologies to create environments that are efficient, sustainable, and responsive to the needs of their inhabitants. But what does it take to build a smart city? And what challenges must be overcome to realize this vision? *Smart Cities - Foundations and Perspectives* is a comprehensive guide that explores the intricate process of

developing smart cities. The book is organized into two key sections. The first section, "Smart Cities Opportunities and Challenges", takes you through the initial stages of smart city development, with a focus on real-world examples like Saudi Arabia's ambitious smart city projects. It discusses the critical areas of energy, mobility, and waste management, offering a clear view of the evolution of these cities and the hurdles they face. In the second section, "Smart Cities Technologies", the book delves into the technological backbone of smart cities. From the Internet of Things (IoT) to renewable energy solutions and cybersecurity measures, it covers the cutting-edge innovations that are essential for creating intelligent urban environments. Written by leading experts in the field, this book provides invaluable insights for policymakers, urban planners, technologists, and anyone interested in the future of cities. *Smart Cities - Foundations and Perspectives* is not just a blueprint for building smart cities—it is a call to action for creating urban spaces that are secure, sustainable, and inclusive.

journal of smart cities and society: *AI and Emerging Technologies for Emergency Response and Smart Cities* Mobo, Froilan D., 2025-04-23 Emerging technologies are transforming diverse industries, enhancing efficiency and safety. Artificial intelligence (AI), in particular, can be useful for enhancing emergency response systems and developing smart cities and campuses. They can be leveraged to improve urban safety, streamline emergency management, and create sustainable smart environments. As a result, AI is an innovative solution for creating a safer future. *AI and Emerging Technologies for Emergency Response and Smart Cities* provides insights into the latest technological advancements and discusses the challenges, ethical considerations, and future directions in the rapidly evolving field of urban development. Covering topics such as disaster risk management, weapon identification, and early warning systems, this book is an excellent resource for urban developers, policymakers, professionals, researchers, scholars, academicians, and more.

journal of smart cities and society: *Smart Cities to Smart Societies* Esmat Zaidan, Imad Antoine Ibrahim, Elie Azar, 2025-05-28 This book explores the governance of smart cities from a holistic approach, arguing that the creation of smart cities must consider the specific circumstances of each country to improve the preservation, revitalisation, liveability, and sustainability of urban areas. The recent push for smart cities is part of an effort to reshape urban development through megaprojects, centralised master planning, and approaches that convey modernism and global affluence. However, moving towards a citywide smart transition is a major undertaking, and complexities are expected to grow exponentially. This book argues that a comprehensive approach is necessary to consider all relevant aspects. The chapters seek to identify the potential and pitfalls of the smart transformation of urban communities and its role in sustainability goals; share state-of-the-art practices concerning technology, policy, and social science dimensions in smart cities and communities; and develop opportunities for cooperation and partnership in wider and larger research and development programmes. Divided into three parts, the first part of the book highlights the significance of various societal elements and factors in facilitating a successful smart transition, with a particular emphasis on the role of human capital. The second part delves into the challenges associated with technology and its integration into smart city initiatives. The final part of the book examines the current state of regulations and policies governing smart cities. The book will be an important asset for students and researchers studying law, engineering, political science, international relations, geopolitics, economics, and engineering.

journal of smart cities and society: *Smart Cities in Europe and Asia* Prana Krishna Biswas, Robert Dygas, 2023-07-24 The smart city concept, together with the growing importance of the UN's Sustainable Development Goals, has a significant impact on city management and governance. This book examines real cases of smart city management across Asia and Europe. It covers regions such as Iceland, Estonia, Poland, Germany, India, Indonesia, Malaysia, Singapore, and Vietnam to systemize the knowledge in the field. It evaluates smart cities' efficiency and analyzes and assesses the standards, norms and best practices involved in the management of smart cities. The book answers questions such as what it is that makes smart cities stand out, why some countries in Europe and Asia have more smart cities than others, whether smart cities support the economy and

GDP growth of the country, and what the main determinants of forming smart cities in Asia and Europe are. It also evaluates whether smart cities secure higher standards of living for their citizens as compared to regular cities. Many theoretical concepts and theories are developed and then verified from the perspective of Western economies. Central Eastern European and Asian countries are frequently overlooked, thus, examining the smart city idea from the viewpoint of non-Western economies offers a fresh insight into the concept and its adaptation and evolution. The range of issues analyzed in the book are multilayered and approached from a wide array of perspectives, from macroeconomics to management, finance and technology, and public policy. Thus, the book is addressed to researchers, students, and academics who specialize in sustainable and regional development, economic geography, and management. It will also be of interest to urban planners, environmental scientists, and policymakers.

journal of smart cities and society: Smart and Sustainable Cities? James Evans, Andrew Karvonen, Chris Martin, Andres Luque-Ayala, Kes McCormick, Rob Raven, Yuliya Voytenko Palgan, 2020-12-23 Smart cities promise to generate economic, social and environmental value through the seamless connection of urban services and infrastructure by digital technologies. However, there is scant evidence of how these activities can enhance social well-being and contribute to just and equitable communities. Smart and Sustainable Cities? Pipedreams, Practicalities and Possibilities provides one of the first examinations of how smart cities relate to environmental and social issues. It addresses the gap between the ambitious visions of smart cities and the actual practices on the ground by focusing on the social and environmental dimensions of real smart city initiatives as well as the possibilities they hold for creating more equitable and progressive cities. Through detailed analyses of case studies in the United States, Australia, the United Kingdom, Japan, Germany, India and China, the contributors describe the various ways that social and environmental issues are interpreted and integrated into smart city initiatives and actions. The findings point towards the need for more intentional engagement and collaboration with all urban stakeholders in the design, development and maintenance of smart cities to ensure that everyone benefits from the increasingly digitalised urban environments of the twenty-first century. The chapters in this book were originally published as a special issue of the journal *Local Environment*.

journal of smart cities and society: Smart Cities: Issues and Challenges Anna Visvizi, Miltiadis Lytras, 2019-06-18 Smart Cities: Issues and Challenges: Mapping Political, Social and Economic 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 policymakers around the globe, it identifies and discusses the nascent threats and challenges contemporary urban areas face, highlighting the drivers and ways of navigating these issues in an effective manner. Uniquely providing a blend of conceptual academic analysis with empirical insights, the book produces policy recommendations that boost urban sustainability and resilience. - 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

journal of smart cities and society: Handbook of Green Engineering Technologies for Sustainable Smart Cities K. Saravanan, G. Sakthinathan, 2021-07-26 Handbook of Green Engineering Technologies for Sustainable Smart Cities focuses on the complete exploration and presentation of green smart city applications, techniques, and architectural frameworks. It provides detailed coverage of urban sustainability spanning across various engineering disciplines. The book discusses and explores green engineering technologies for smart cities and covers various engineering disciplines and environmental science. It emphasizes techniques, application frameworks, tools, and case studies. All chapters play a part in the evolution of sustainable green smart cities and present how to solve environmental issues by applying modern industrial IoT solutions. This book will benefit researchers, smart city practitioners, academicians, university

students, and policy makers.

journal of smart cities and society: *The Routledge Companion to Smart Cities* Katharine S. Willis, Alessandro Aurigi, 2020-03-27 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.

journal of smart cities and society: *Sustainable Smart Cities* Amjad Almusaed, Asaad Almssad, 2023-03-08 Rapid urbanization has led to many problems in cities, including climate change, deteriorating infrastructure, disorganized labor forces, and diminishing resources. This book presents a well-grounded vision for the kind of future city we need to live in by encapsulating the most salient and practical implementations of the many responsibilities and functions that characterize the modern metropolis. Furthermore, this book uses the idea of sustainability to show and analyze many theories and approaches to handling the topic of modern sustainable smart cities, as well as the effects they have on human life and the natural environment through sustainable development objectives and aims supported by the United Nations.

journal of smart cities and society: *Smart Cities and Innovative Urban Technologies* Tommi Inkinen, Tan Yigitcanlar, Mark Wilson, 2020-12-29 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*.

journal of smart cities and society: *Managing Smart Cities* Anna Visvizi, Orlando Troisi, 2022-02-01 This book adopts the managerial perspective to the study of smart cities. As such, this book is a necessary addition to the existing body of literature on smart cities. The chapters included

in this book prove the case that transformation of cities to smart cities is a function of effective and efficient management practices implemented at diverse levels of smart cities. While advances in information and communication technology (ICT) are crucial, it is the ability to apply ICT consciously and efficiently that drives the transformation of cities to smart cities in a manner conducive to cities' sustainability and resilience. The book covers three sets of interconnected topics: Management and decision-making for urban design and infrastructure development Management and decision-making in context of smart cities development Ways of promoting and ensuring participation, representation and co-creation in smart cities These three groups of topics offer a great opportunity to acquire a clear, direct, and practice-driven knowledge and understanding of how effective management allows ICT-enhanced tools and applications to change smart cities, possibly making them smarter.

journal of smart cities and society: Resilient and Responsible Smart Cities Hugo Rodrigues, Tomohiro Fukuda, Simon Elias Bibri, 2022-07-22 This book gathers current research studies which explore new technologies in architecture and urban practices which ensure the efficient management of cities' infrastructures and provide new solutions to the complex complications that may result in the tackling of challenges of population density, traffic planning, and city planning at the neighborhood scale or rather the scale of buildings and everyday life. It offers a path towards city resilience and sustainable infrastructure with the aim of meeting the demands of mega-cities. The primary audience of this book will be academics and professionals from the fields of architecture, urban planning, civil engineering, computer sciences, and mathematics. The book will aid them in their contributions to the implementation of sustainable development goals.

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