Review

Leveraging Smart City Technologies for Enhanced Real Estate Development: An Integrative Review

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Highlights:

What are the main findings?

- Smart technologies are mature enough to leave academic shelves and be utilized in the practical field;
- A total of 131 added values were captured from the investigated technologies, such as site selection using GIS;
- Smart technologies have the highest add values at the operation sub-phase;
- There are no other sufficient alternatives for real estate developers than utilizing smart technologies in real estate development; more smart real estate must be developed in the near future;
- City management and municipalities have a significant role in activating smart technologies and their added values, transitioning cities and real estate into smarter ones.

What is the implication of the main finding?

- City management should invest in big data and geodata, develop a smart infrastructure, activate automated building permits, and create a digital twin for the city.
- Real estate developers should focus on GIS, BIM, Big Data, and AI, significantly impacting the acquisition and conception phases by using GIS for site selection, BIM for design, Big Data for market analysis, and AI for predictive analytics.

Abstract: This study aims to identify the added value of smart city technologies in real estate development, one of the most significant factors that would transform traditional real estate into smart ones. In total, 16 technologies utilized at both levels have been investigated. The research followed an integrative review methodology; the review is based on 168 publications. The compiled results based on metadata analysis displayed the state of each technology's added values and usage in both scales. A total of 131 added values were identified. These added values were categorized based on the real estate life cycle sub-phases and processes. Moreover, the value of the integration between these technologies was revealed. The review and results proved that these technologies are mature enough for practical use; therefore, real estate developers, city management, planners, and experts should focus on implementing them. City management should invest in Big Data and geodata and adopt several technologies based on the aspects required for development. This study can influence stakeholders, enhance their decision-making on which technology would suit their needs, and provide recommendations on who to utilize them. Also, it provides a starting point for stakeholders who aim to establish a road map for incorporating smart technologies in future smart real estate.

Smart Buildings And Technology Enhanced Real Estate Volume 1

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The Journal of Real Estate Development ,1985   Intelligent Buildings ,1986   **National Telesystems Conference Proceedings** ,1994   The Appraisal Journal ,1986   **Project Infrastructure Development Handbook** ,1989

Understanding Infrastructure George Rainer,1991-01-16 Urban Water Infrastructure Planning Management and Operations Neil S Grigg discusses the factors that lead to effective management of water systems in urban areas Journal of the Water Pollution Control Federation Unique in its orientation for managers Urban Water Infrastructure focuses on the productive management of urban water systems by laying out its discussion in terms of the system as a whole how a system s component elements work together how much they cost to build and operate and the sociopolitical forces that guide the productive operation This easily accessible reference is aimed at engineers planners and managers teaching both the theoretical and practical aspects of urban water management 1986 0 471 82914 5 328 pp A Guide to Site and Environmental Planning Third Edition Harvey M Rubenstein Perhaps the strongest feature of the book is the inclusive comprehensive and logical analysis within each of the chapters All in all I can highly recommend this book to anyone engaged in site planning or interested in site plans developed by others Landscape Planning This Third Edition incorporates pertinent research of the past decade and presents an approach to design based on factual information that enables creative talent to be used to its utmost advantage Chapters follow phases used in the development of a site plan and include extensive information on site selection resource analysis land use storm drainage alignment of horizontal and vertical curves specifications sports facilities and play grounds rooftop gardens residential development concepts and much more 1987 0 471 85033 0 410 pp Infrastructure Engineering and Management Neil Grigg Here is the first technical and management book to focus on solutions to complex large scale problems involving major infrastructure projects The wide ranging text covers such systems as roads and streets water and wastewater waste management buildings and structures and energy facilities Infrastructure Engineering and Management gives an in depth knowledge of several key subjects relating technology to management planning programming and budgeting finance organization and private sector involvement operations and maintenance project management and research needs 1988 0 471 84974 X 380 pp   Teleports in the Information Age J.M. Noothoven van Goor,G. Lefcoe,1987-01-01 Teleports represent the pinnacle of telecommunications development throughout the world They are based on technologies such as the telephone which have become indispensable to daily life But the pace of progress in this field is increasing rapidly It has therefore become necessary to analyze current developments and look to the future This book presents discussions and analyses on almost all aspects of Teleports ranging from the economic and legal considerations to site development and the variety of services that can be offered The final section of the book looks at the practice of operating Teleports in various countries around the world   **Integrating Big Data and IoT for Enhanced Decision-Making Systems in Business** Reem Khamis Hamdan,2025-09-30 This book presents recent research on

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settings to enhance worker speed communication and overall productivity The Advanced Building Systems Integration Consortium an industry university partnership established at Carnegie Mellon University is dedicated to researching and developing the quality of the workplace through the innovative use of advanced technologies This important work reports on the major findings of the multidisciplinary field team in the study of a few key Japanese office buildings The authors focus on a selected set of design features components and integrated systems that herald innovative future trends and stand the test of occupancy evaluation Designing the Office of the Future provides the general approach of the Advanced Building Systems Integration Consortium ABSIC to the building studies and their use towards the development of advanced products and workplaces The book reports generalized findings from the international building studies in four countries explains the intellectual framework of the team s approach to defining advanced workplaces and presents the details of the actual building evaluation process The book then presents an overview of Japanese trends drawn from the in depth building studies and other building visits as well as critical readings and discussions with Japanese leaders in intelligent building design Other topics covered include theselection of innovative components systems and processes identified by the multidisciplinary team in four Japanese buildings Toshiba Headquarters NTT Twins Regional Headquarters the ARK Mori Building and the Umeda Center building Designing the Office of the Future then discusses new developments in building design technology and concludes with a list of major design changes to be introduced into the technologically advanced workplace

Paperbound Books in Print ,1992 *Intelligent Buildings and Infrastructure with Sustainable and Social Values* Derek Clements-Croome,2024-10-11 Intelligent Buildings and Infrastructure with Sustainable and Social Values Third edition is a comprehensive guide to the latest knowledge on the design management operation and technology of intelligent buildings and cities for sustainable developments that meet the needs of users now and in the future *Intelligent Buildings: An Introduction* Derek Clements-Croome,2013-10-08 This book introduces the concept of Intelligent Buildings to the wider construction community Edited by the Father of Intelligent Buildings Derek Clements Croome the book explains that intelligent buildings should be sustainable healthy technologically aware meet the needs of occupants and business and should be flexible and adaptable to deal with change This means the processes of planning design construction commissioning and facilities management including post occupancy evaluation are all important Buildings comprise many systems devised by many people and yet the relationship between buildings and people can only work satisfactorily if there is an integrated team with a holistic vision *Land Use Digest* ,1982

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