

Integrative approach for optimizing construction and demolition waste management practices in developing countries

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ABSTRACT

Due to the numerous infrastructure development projects taking place in developing nations, large amounts of construction and demolition waste (C&DW) are unavoidable. Most C&DW management strategies, however, involve 'isolated' operations with high overhead. Waste data transfers are difficult to 'watch over'. Important information needed for decision-making is, therefore, challenging to obtain. This paper's goal is to discuss C&DW management from an integrative standpoint. Using GIS functions and a fuzzy analytical hierarchy approach, the best sites for waste management facilities can be found. A mixed integer optimization model is created to identify optimal location and allocation of waste management facilities. The objective is to reduce waste collection costs under different operational scenarios. By incorporating 'construct elements' and 'connected elements' that are linked, isolated C&DW management ventures are transformed into successful C&DW management ventures. The effectiveness and efficiency of waste management strategies are evaluated using GIS analysis. A dashboard for tracking waste data flows is created to show how stakeholder decision making can be made easier. The proposed integrative approach differs from other approaches since it re-purposes location-allocation models and GIS data to optimize 'isolated' C&DW management practices. In addition, the notion of 'construct elements' that can be time-shared is outlined. Moreover, the notion of 'connected elements' that are dynamic, time-limited, and yet transient enough to provide the necessary interconnectivity is developed to support and complement the seamless function of a network of C&DW management facilities. The usefulness of the integrative approach is illustrated by a case study. Analysis of case studies demonstrates that waste management strategies in developing countries can be made more effective and waste collection efficiency can be increased. According to comparative studies, updating current waste management facilities can cut operating costs by 26%, while implementing an integrative strategy can cut costs by 52%. The discussions in this paper can help towns reevaluate C&DW management and put useful, unified C&DW management techniques into practice.

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analytical hierarchy process
(F-AHP); optimization

1. Introduction and background

Construction projects are significant economic activities that generate substantial amounts of construction and demolition waste (Aslam et al., 2020; Bao & Lu, 2020; Kabirifar et al., 2021). This trend is unavoidable since the amount of waste generated is usually related to the expansion of national economies (Islam et al., 2019; Manowong, 2012; Uriu & Brent, 2006; Wang et al., 2022; Yuan, 2013). For example, a quick observation shows that this trend is true especially in quickly developing countries like Qatar, where most of the construction and demolition waste is generated by multiple construction projects running concurrently (Egbelakin et al., 2021). These projects are typically undertaken to address, (i) infrastructure development, (ii) rising urbanization, and (iii) the requirement to satisfy strategic

development objectives (Bao & Lu, 2020). Despite this, it is critical to monitor the development, storage, and disposal of construction and demolition waste (C&DW) to prevent the negative repercussions and burdens associated with a reactive approach to C&DW management (Zhao, 2021). While some of the cities in developing countries aspire quick upgrades to smart city developments, it is critical to balance infrastructural development and construction waste management to avoid, for example, visual effects of waste generation and accumulation—a situation that is not amenable to urbanization and smart city development (Bao et al., 2023; Szpilko et al., 2023).

In the published literature, researchers have developed a waste hierarchy to help in positioning waste management strategies towards sustainable waste

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Routledge Handbook of Organizational Change in Africa Franca Ovadje, Samuel Aryee, 2018-08-06 Although change management and therefore effective adaptation to environmental complexity is considered a uniquely human cultural activity the extensive change management literature is largely based on the experiences of organizations in the advanced economies of the West As the economies of African countries become increasingly open African organizations will need to be agile in order to adapt and grow in a dynamic global environment Currently there is a dearth of contextualized knowledge on change management within Africa but this handbook aims to address this by bringing together a wide range of experts to explore organizational change and change management from an African context The handbook adopts a multidisciplinary historical philosophical processual and strategic perspective as well as empirical accounts of change management It addresses such issues as What are the external and internal pressures for change What is the content and process of change management What are the essentials of effective change management How can change management be theorized from an African perspective What sort of leadership can best align with change management demands in an African context How do organizations build internal change management capability It is hoped that answers to these questions contained in the handbook will provide a contextualized understanding of change management which African organizations and scholars can leverage to respond to the threats and opportunities inherent in their increasingly dynamic environment The handbook should constitute an essential reference for academics researchers and advanced students of change management development studies and African studies as well as practitioners

Malaysia and the Development Process

Vanessa C.M. Chio, 2013-01-11 Drawing on recent deconstructions in anthropology postcolonial studies and critical sociology Malaysia and the Development Process situates and explores the phenomenon of international knowledge transfers within the context of globalization Based on primary and secondary research and a series of experiential reflections fieldwork was conducted in two foreign electronics multinationals and a variety of public and semi public institutions The findings reassess issues of knowledge power subjectivity and agency and the relations between the West and the non West as they are negotiated between and within multinational workplaces and local agencies in Malaysia

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Evolving Paradigms in Tourism and Hospitality in Developing Countries Bindi Varghese,2018-09-07 This volume highlights a broad selection of valuable research work by renowned professionals and scientists from academia and the travel industry bridging academic perspectives and research with practical applications It provides a wide ranging vision of a multitude of trends in the global travel and tourism industry today and in the future Adopting an integrated and interdisciplinary approach the contributors examine a diverse selection of topics and share their research and exploratory investigations to frame their implications and outcomes The volume reflects upon the wide ranging conceptual approaches to the subject of tourism and includes varying paradigms and perspectives on the core elements of the tourism sector The overall thrust of the book is to provide a required critical depth to tourism studies and to guide the reader through the fundamental themes of tourism destination marketing branding and management

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Comparative Management

Raghu Nath, 1988 **Management Reset** Edward E. Lawler, III, Christopher G. Worley, 2011-02-23 Provocative new management principles and practices that create effective organizations for shareholders and society Management experts Lawler and Worley have developed a set of management principles that enable organizations to be both successful and responsible Existing command control and high involvement management styles depend too much on stable conditions and focus too narrowly on economic outcomes They convincingly argue that we need to reset our approach to management to one that fits today's demanding business environment Starting with a change in how success is measured and a more realistic view of risk Lawler and Worley take us through how strategy governance organization structure and talent should be managed The result is an organization that can reliably produce financial social and ecological results Includes illustrative lessons from Microsoft Cisco Netflix DaVita Starbucks Nokia and the U.S. Secret Service Offers clear prescriptions for managers who want to organize for sustainable performance effectiveness Lawler and Worley are the authors of the bestselling *Built to Change* Lawler and Worley outline why and how the current practice of management must change in order for organizations to achieve sustained organizational effectiveness

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Organizations and the Law of the Sea, 2002 *Development of Modules for Training on Integrated Approach to Disaster Management and Regional/Rural Development Planning (Phase IV): Report and summary of proceedings of the UNCRD-CIRDAP Workshop on Development of Modules for Training on Integrated Approach to Disaster Management and*

Regional ,1993 **An Integrated Approach to the Management of Production and Marketing Risks in the Primary Sector of the Developing Countries** Olivier Matringe,1997 **Whitaker's Books in Print** ,1990 *Ecosystem Approaches and Oceans* United Nations. Open-ended Informal Consultive Process on Oceans and the Law of the Sea. Meeting 2006,2008 The publication presents panel presentations and plenary discussions from interested delegations which resulted in important convergence of opinions The area of focus of the presentation was Ecosystem approaches and oceans 20 individual panelists made presentations on the various aspects of the topic The presentations demonstrate that a lot more is happening than had been understood Nonetheless a lot is still to be done in particular to deal with issues on the high seas where knowledge and governance systems are weak **Project Planning and Implementation in Developing Countries** Dennis A. Rondinelli,Aspy P. Palia,1976 Natural Resources Management in Mainland Southeast Asia ,1995 **UNDOC, Current Index** Dag Hammarskjöld Library,1995 *International Labour Documentation* International Labour Office. Central Library and Documentation Branch,International Labour Organization. Central Library and Documentation Branch,1999 **Seeking an Integrated Approach to Watershed Management in the South Platte Basin** ,1993 **寻求統合的流域管理方法在南普拉特河盆地** (Japan),1900

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