

# **A Review on Decision Support Models for Regional Sustainable Waste Management**

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## **Executive Summary**

Many planners and decision makers in the area of municipal solid waste, as yet lack thorough understanding of the whole chain of waste management system and its impact on environmental quality and public health. By fact, with their plans and decisions, they have role on engendering the influence on the urban population and the cityscape formation. There have been publications on the Decision Support Models (DSMs) for regional sustainable waste management to assist planners and decision makers in finding the optimum way to manage municipal solid waste.

However most of existing models are primarily focusing on cost or environmental analysis. There are few that consider other crucial factors such as the demographic condition, the characteristic of urban form and urban infrastructure, land transformation aspects due to urban development, etc. Consequently, such models suffer from deficiencies and are constrained when they meet local cultural requirements. Thus it may leads to imprecise decisions. Those factors are the critical issues from regional development points.

This paper reviews some of DSMs identified in the literature and pointing out the planner and decision makers' contribution to the DSMs development. The main objective of this paper is: 1) compare the models of developed and developing countries; 2) review the urban planner and waste managers' contribution in the development of DSMs identified in the literature; and 3) to suggest some approaches for better waste management DSM.

Findings have shown that models in developed countries have existed already for a long time. Models from developed countries seem to have a wider scope compared to the models from developing countries. But on the contrary, developing countries have more urgent needs to use DSM, mostly due to hygiene issues. Models from both developed and developing countries need to consider social aspects, particularly public involvement.

**Keywords:** municipal solid waste, urban planner, waste manager, decision support model

## **Introduction**

More than 50% of the world's total population today lives in urban areas. Solid waste management is one of the serious issues that are very close-coupled with the increasing world's population and population density. To find most suitable solutions on waste management, decision support models are frequently developed.

# Decision Support Models For Regional Sustainable Development

**Dadao Lu, Jie Fan**



## **Decision Support Models For Regional Sustainable Development:**

Decision Support Models for Regional Sustainable Development Maria Giaoutzi, Peter Nijkamp, 1993      *Decision support models for regional sustainable development* Maria Giaoutzi, Peter Nijkamp, 1993      *Regional Development Research in China: A Roadmap to 2050* Dadao Lu, Jie Fan, 2011-12-27 As one of the eighteen field specific reports comprising the comprehensive scope of the strategic general report of the Chinese Academy of Sciences this sub report addresses long range planning for developing science and technology in the field of regional development research They each craft a roadmap for their sphere of development to 2050 In their entirety the general and sub group reports analyze the evolution and laws governing the development of science and technology describe the decisive impact of science and technology on the modernization process predict that the world is on the eve of an impending S T revolution and call for China to be fully prepared for this new round of S T advancement Based on the detailed study of the demands on S T innovation in China s modernization the reports draw a framework for eight basic and strategic systems of socio economic development with the support of science and technology work out China s S T roadmaps for the relevant eight basic and strategic systems in line with China s reality further detail S T initiatives of strategic importance to China s modernization and provide S T decision makers with comprehensive consultations for the development of S T innovation consistent with China s reality Supported by illustrations and tables of data the reports provide researchers government officials and entrepreneurs with guidance concerning research directions the planning process and investment Founded in 1949 the Chinese Academy of Sciences is the nation s highest academic institution in natural sciences Its major responsibilities are to conduct research in basic and technological sciences to undertake nationwide integrated surveys on natural resources and ecological environment to provide the country with scientific data and consultations for government s decision making to undertake government assigned projects with regard to key S T problems in the process of socio economic development to initiate personnel training and to promote China s high tech enterprises through its active engagement in these areas      Environmental Modeling for Sustainable Regional Development: System Approaches and Advanced Methods Olej, Vladimir, Obr? lov , Ilona, Krupka, Jiri, 2010-11-30 Understanding the advancement of sustainable development is critical to managing human activities to avoid the overexploitation of resources and pollution of the environment beyond tolerable levels Sustainable development involves not only preservation and care of the environment but also recognition of the complex relations between economic social and living systems Environmental Modeling for Sustainable Regional Development System Approaches and Advanced Methods presents processing methods and their applications which are practical for decision making and task management at the regional level as well as for scientific studies in sustainable development assessment This book serves as a reference guide for post graduate students in the field of management as well as a critical guide for managers government officials and information professionals      Handbook of Environmental and Resource Economics

Jeroen C. J. M. Van den Bergh, 2002-01-01 This major reference book comprises specially commissioned surveys in environmental and resource economics written by an international team of experts Authoritative yet accessible each entry provides a state of the art summary of key areas that will be invaluable to researchers practitioners and advanced students

**Landscape Modelling and Decision Support** Wilfried Mirschel, Vitaly V. Terleev, Karl-Otto Wenkel, 2020-03-02 This book contributes to a deeper understanding of landscape and regional modelling in general and its broad range of facets with respect to various landscape parameters It presents model approaches for a number of ecological and socio economic landscape indicators and also describes spatial decision support systems DSS frameworks and model based tools which are prerequisites for deriving sustainable decision and solution strategies for the protection of comprehensively functioning landscapes While it mainly focuses on the latest research findings in regional modelling and DSS in Europe it also highlights the work of scientists from Russia The book is intended for landscape modellers scientists from various fields of landscape research university teaching staff and experts in landscape planning and management landscape conservation and landscape policy

**Theory and Implementation of Economic Models for Sustainable Development** J.C. van den Bergh, M.W. Hofkes, 2013-03-09 There is widespread concern for long term environmental issues in relation to economic processes and developments Among the concerned scientists are economists who have taken up the challenge to apply economic insights and tools for the study of long term environment economy interactions and to give the concept of sustainable development economic hands and feet This book presents a pluralistic perspective on efforts problems and successes in this area This collection of papers was originally prepared for an international symposium titled Economic Modelling of Sustainable Development Between Theory and Practice which was hosted by the Vrije Universiteit in Amsterdam on December 20th 1996 The main motivation for this symposium was that the usefulness of the concept of sustainable development for theoretical and applied modelling is still being debated growth theorists resource economists ecological economists policy makers and many others are trying to deal with the concept in various and sometimes conflicting ways The aim of the symposium was to bring together different theoretical and implementational perspectives on modelling for sustainable development We hope that this volume will inform a wide audience about the perspectives and progress in this important area of research as well as stimulate further research notably on applied modelling and practical methods for the analysis of sustainable development at various spatial scales The papers have in due course been revised several times based on comments made by discussants referees and the editors

Exploring Sustainable Development Martin Purvis, Alan Grainger, 2013-06-17 Sustainable development is capturing the attention of planners politicians and business leaders Within the academic sphere its study is increasingly breaching disciplinary boundaries to become a focus of attention for natural and social scientists alike But in studying such a key concept it is vital that there is a clear definition of what it means how it is applied on the ground and the influence it exerts upon people's perceptions of change in the physical environment economic activity and society Exploring

Sustainable Development is a major new text which provides a multifaceted introduction to key areas of study in this field examining sustainability at the full range of spatial scales from the local to the global Building on existing theory it demonstrates the unique contributions that thinking geographically about space place and human environment relationships can bring to the analysis of sustainable development This book explores different interpretations of sustainable development in both theory and practice in developed and developing countries and in rural and urban areas It pays particular attention to the local national and international politics of implementation the future of climate and energy the role of business and different conceptions of agricultural sustainability This wide ranging text is ideal for undergraduates and postgraduates in geography environmental science development studies and related social and political sciences

*PROCEEDING THE 8 RURAL RESEARCH AND PLANNING GROUP INTERNATIONAL CONFERENCE* Suratman,Muhammad Baiquni,Surani Hasanati,2018-10-18 Rural area with its products community and culture is important in globalization era Its products are the main natural resources for human life Besides the uniqueness and the local wisdom of rural area has become a social resource in modern life Rural has a key role to support sustainable development develop human resource and improve the urban and regional area so that it is essential to learn more the innovations of the rural development The 8th Rural Research and Planning Group RRPg International Conference is an international platform for specialists experts and practitioners of rural development and planning group to discuss share and find new ideas and experiences and to find global partners for future collaboration Moreover participants contribute to the realization of the Sustainable Development Goals SDGs as innovation for rural development The theme of the conference is Innovations of the Rural Development for Implementing Sustainable Development and it has 12 sub themes such as Sustainable Rural Development Rural Governance and Policy Sustainable Agriculture Migration and Displacement Rural Natural Resource Management and Spatial Information Rural Tourism and Regional Development Rural Planning and Infrastructure Smart Village Smart City Innovation and Development Disaster Community Resilience and Community Empowerment Rural Land Management Creative Kampongs for Economic Development This proceeding consists is a collection of selected papers published on the 8th RRPg International Conference held on May 17 18 2017

**Evaluating Sustainable Development in the Built Environment** Peter S. Brandon,Patrizia Lombardi,2010-12-01 The first edition was extremely well received providing an introduction and insight to this important topic in a comprehensive yet easy to read form It was chosen to be issued to the representatives of the organizations from the G8 and G20 countries attending the University Summit held in Turin in 2009 which addressed the issue of how education and research can assist sustainable development The second edition completely updated to reflect the significant advances and new insights that have been made since publication of the first edition focuses on two main issues Facilitating a dialogue between all stakeholders so that the complexity of the problem can be exposed structured and communicated Understanding how to assess progress in sustainable development It continues to provide coherent guidance on the techniques that can be

used to assess sustainable development in a rigorous manner The approach is introduced using illustrations and case studies together with follow up references It remains the ideal starting point for those trying to get a handle on the subject and for those who wish to examine a structured and systematic approach to the evaluation of sustainable development in the built environment Computational Science and Its Applications - ICCSA 2023 Workshops Osvaldo Gervasi, Beniamino

Murgante, Ana Maria A. C. Rocha, Chiara Garau, Francesco Scorza, Yeliz Karaca, Carmelo M. Torre, 2023-06-30 This nine volume set LNCS 14104 14112 constitutes the refereed workshop proceedings of the 23rd International Conference on Computational Science and Its Applications ICCSA 2023 held at Athens Greece during July 3 6 2023 The 350 full papers and 29 short papers and 2 PHD showcase papers included in this volume were carefully reviewed and selected from a total of 876 submissions These nine volumes includes the proceedings of the following workshops Advances in Artificial Intelligence Learning Technologies Blended Learning STEM Computational Thinking and Coding AAILT 2023 Advanced Processes of Mathematics and Computing Models in Complex Computational Systems APMC 2023 Artificial Intelligence supported Medical data examination AIM 2023 Advanced and Innovative web Apps AIWA 2023 Assessing Urban Sustainability ASUS 2023 Advanced Data Science Techniques with applications in Industry and Environmental Sustainability ATELIER 2023 Advances in Web Based Learning AWBL 2023 Blockchain and Distributed Ledgers Technologies and Applications BDLTA 2023 Bio and Neuro inspired Computing and Applications BIONCA 2023 Choices and Actions for Human Scale Cities Decision Support Systems CAHSC DSS 2023 and Computational and Applied Mathematics CAM 2023 *Regional Sustainability* Irene Ring, Bernd Klauer, Frank Wätzold, Bengt A. Mansson, 2012-12-06 This book presents interdisciplinary approaches towards achieving regional sustainability The relevance of interdisciplinary research and its consequences for economic research into the environment are elaborated and new approaches are developed to integrate knowledge from ecological and social sciences into economic research Regional Sustainability includes the development of theoretical concepts as well as applied regional case studies relating to nature conservation and agricultural policies coastal management and air pollution problems Centered around the themes of decision making processes modelling as support for policy analysis and the evaluation of policies it successfully addresses problems facing researchers and policy makers in the context of regional sustainable development The book pays special attention to human behaviour and stakeholders in decision making processes and contributes to the transition from ecological economics to socio ecological economics

Product Lifecycle Management for a Global Market Shuichi Fukuda, Alain Bernard, Balan Gurumoorthy, Abdelaziz Bouras, 2014-12-17 This book constitutes the refereed post proceedings of the 11th IFIP WG 5.1 International Conference on Product Lifecycle Management PLM 2014 held in Yokohama Japan in July 2014 The 51 full papers presented were carefully reviewed and selected from 77 submissions They are organized in the following topical sections BIM operations maintenance and renovation BIM concepts and lifecycle management design and education naval engineering and shipbuilding

aeronautical and automotive engineering industry and consumer products interoperability integration configuration systems engineering change management and maturity knowledge engineering knowledge management service and manufacturing and new PLM     A Decision Support System for Regional Sustainable Development: the Flag Model Peter Nijkamp,1997

**Evaluation in Planning** E.R. Alexander,2016-04-22 Evaluation is a critical stage in urban and regional planning and development with the consideration of alternative proposals essential for informed debate and decision Evaluation in planning has become even more important with the new paradigm attempting to integrate economic efficiency with equity sustainability and social responsibility The craft of pre development evaluation has long been influenced by Nathaniel Lichfield and in his honour this book brings together prominent researchers and practitioners to discuss evaluation in planning its conceptual foundations and subsequent development its strengths and persisting dilemmas and its best practices and their potential for improving future planning and development The chapters trace evaluation in planning from its historical origin to current applications Part one reviews the evolution of evaluation theory and practice and part two contains a selection of best practice application The final integrating chapter notes key problems and offers directions for future development in evaluation research and practice     **Sustainable Urban Development Volume 2** Mark

Deakin,Gordon Mitchell,Peter Nijkamp,Ron Vreeker,2007-04-11 In this book the second of a three volume series leading authorities on the methodology of environmental assessment provide a unique insight into questions of critical importance to sustainable urban development Using the framework and protocols set out in Volume 1 Volume 2 examines how well the environmental assessment methods evaluate the ecological integrity of urban development and equity of the resulting resource distribution The examination focuses on the instruments of environmental assessment approaches to environmental assessment based in systems thinking methods for environmental economic and social assessments their use in evaluating the sustainability of urban development The Sustainable Urban Development Series contains the research and debate of the BEQUEST Building Environmental Quality Evaluation for Sustainability network funded by the European Commission Together the books provide a framework set of protocols environmental assessment methods and toolkit for policy makers academics professionals and advanced level students in urban planning and studies as well as other areas of the built environment     *Sustainable Cities in Europe* Peter Nijkamp,Adriaan Perrels,2018-12-07 Although urbanization steadily

increases many modern cities are finding the accommodation of their populations an increasingly difficult task Planners and policy makers battling to alleviate the problem with a host of urban renewal initiatives have made environmental issues and policies central to their quest for urban sustainability Drawing on the CITIES programme of the EC this study describes the urban energy and environmental policies now available Through detailed case studies of various European cities it explains how to devise and implement strategies for urban growth and development     Resource Management, Sustainable Development and Governance Baleshwar Thakur,Rajiv R. Thakur,Srikumar Chattopadhyay,Rajesh K. Abhay,2022-01-01 This

book examines the relationship between natural resource management sustainable development and governance with case studies from India and other places covering disaster risk reduction conflict resolution capacity building climate change adaptation and resilience citizen engagement and ecological conservation Though the studies focus mostly on cases in India the volume discusses how governance can be employed to help develop and implement sustainable practices globally through the lens of the United Nations Sustainable Development Goals SDGs framework Readers will learn how to integrate concepts of resource management sustainable development and governance to improve human resilience to global environmental change and to assess the proper development approaches to assist economically stressed and resource deprived individuals The book will be of use to graduate students and academics policy makers planners and nonprofits

### **Pursuing**

**Sustainability** Chialin Chen,Yihsu Chen,Vaidyanathan Jayaraman,2021-03-03 This handbook includes three parts corresponding to the following three domains of OR MS research related to sustainability i Systems Design Innovation and Technology ii Manufacturing Logistics and Transportation and iii Sustainable Natural Resource Management The first part of the handbook Chapters 2 6 will focus on the creation and development of sustainable products services value chains and organizations from a systems perspective Key areas to be covered include Green Design Innovation Technology and Engineering Management Sustainable Value Chain Systems Sustainability Standards and Performance Evaluation and Circular Economy and New Research Directions in Sustainability The second part of the handbook Chapters 7 11 will concentrate on the major operational and logistic issues faced by today s industries in pursuing sustainability Key areas to be covered include Remanufacturing Reverse Logistics Closed Loop Supply Chains Sustainable Transportation and New Research Directions in Green Supply Chain Management The third part of the proposed handbook Chapters 12 16 will center on major sustainability issues in managing engineering infrastructure and natural resources Key areas to be covered include Renewable Energy Sustainable Water Resource Biofuel Infrastructure Natural Gas and New Research Direction in Sustainable Resource Management The handbook aims to bridge the three main OR MS research domains in sustainability Systems Design Innovation and Technology Manufacturing Logistics and Transportation and Sustainable Natural Resource Management Traditionally these domains are treated separately in the OR MS literature By combining the three domains the handbook will provide a more holistic treatment of MS OR methodologies to address critical sustainability issues faced by today s society Unlike most existing handbooks which only focus on current OR MS research in sustainability within a domain this handbook will include a concluding chapter in each of the three parts to discuss and identify potential future research directions in each of the three main domains

Soft Computing Models in Industrial and Environmental Applications, 6th International Conference SOCO 2011 Emilio Corchado,Vaclav Snasael,Javier Sedano,Aboul Ella Hassanien,José Luis Calvo,Dominik Slezak,2011-03-04 This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at SOCO 2011 held in the beautiful and historic city of Salamanca Spain April 2011 This volume presents the



papers accepted for the 2011 edition both for the main event and the Special Sessions SOCO 2011 Special Sessions are a very useful tool in order to complement the regular program with new or emerging topics of particular interest to the participating community Four special sessions were organized related to relevant topics as Optimization and Control in Industry Speech Processing and Soft Computing Systems Man Cybernetics and Soft Computing for Medical Applications

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