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# Sustainability Appraisal: Quantitative Methods and Mathematical Techniques for Environmental Performance Evaluation

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**Petar Georgiev, Carlos Guedes Soares**



## **Sustainability Appraisal Quantitative Methods And Mathematical Techniques For Environmental Performance Evaluation Ecoproduction:**

*Sustainability Appraisal: Quantitative Methods and Mathematical Techniques for Environmental Performance Evaluation* Marina G Erechtkhoukova, Peter A Khaite, Paulina Golinska, 2013-03-14 One of the most important issues in developing sustainable management strategies and incorporating ecodesigns in production manufacturing and operations management is the assessment of the sustainability of business operations and organizations overall environmental performance The book presents the results of recent studies on sustainability assessment It provides a solid reference for researchers in academia and industrial practitioners on the state of the art in sustainability appraisal including the development and application of sustainability indices quantitative methods models and frameworks for the evaluation of current and future welfare outcomes recommendations on data collection and processing for the evaluation of organizations environmental performance and eco efficiency approaches leading to business process re engineering

**Sustainability Appraisal: Quantitative Methods and Mathematical Techniques for Environmental Performance Evaluation** Marina G Erechtkhoukova, Peter A Khaite, Paulina Golinska, 2013-03-27 One of the most important issues in developing sustainable management strategies and incorporating ecodesigns in production manufacturing and operations management is the assessment of the sustainability of business operations and organizations overall environmental performance The book presents the results of recent studies on sustainability assessment It provides a solid reference for researchers in academia and industrial practitioners on the state of the art in sustainability appraisal including the development and application of sustainability indices quantitative methods models and frameworks for the evaluation of current and future welfare outcomes recommendations on data collection and processing for the evaluation of organizations environmental performance and eco efficiency approaches leading to business process re engineering

*Research Handbook on Climate Change Mitigation Law* Geert Van Calster, Wim Vandenberghe, Leonie Reins, 2015-01-30 As well as taking stock of the current and proposed legal instruments the book looks at the wider policy and economic aspects of coping with climate change It provides a comparative overview of key issues across Europe the United States Asia Pacific

Information Technology in Environmental Engineering Jorge Marx Gómez, Brenda Scholtz, 2016-02-04 This book presents new concepts as well as practical applications and experiences in the field of information technology for environmental engineering The book has three main focus areas firstly it shows how information technologies can be employed to support natural resource management and conservation environmental engineering scientific simulation and integrated assessment studies Secondly it demonstrates the application of computing in the everyday practices of environmental engineers natural scientists economists and social scientists And thirdly it demonstrates how the complexity of natural phenomena can be approached using interdisciplinary methods where computer science offers the infrastructure needed for environmental data collection and management scientific simulations decision

support documentation and reporting The book collects selected papers presented at the 7th International Symposium on Environmental Engineering held in Port Elizabeth South Africa in July 2015 It discusses recent success stories in eco informatics promising ideas and new challenges from the interdisciplinary viewpoints of computer scientists environmental engineers economists and social scientists demonstrating new paradigms for problem solving and decision making

Sustainable Development and Innovations in Marine Technologies Petar Georgiev, Carlos Guedes Soares, 2019-08-22 Sustainable Development and Innovations in Marine Technologies includes the papers presented at the 18th International Congress of the Maritime Association of the Mediterranean IMAM 2019 Varna Bulgaria 9 11 September 2019 Sustainable Development and Innovations in Marine Technologies includes a wide range of topics Aquaculture Construction Defence Design Dynamic response of structures Degradation Defects in structures Electrical equipment of ships Human factors Hydrodynamics Legal Social aspects Logistics Machinery Marine environmental protection Materials Navigation Noise Non linear motions manoeuvrability Off shore and coastal development Off shore renewable energy Port operations Prime movers Propulsion Safety at sea Safety of Marine Systems Sea waves Seakeeping Shaft Ship resistance Shipyards Small Stability Static response of structures Structures and Wind loads The IMAM series of Conferences started in 1978 when the first Congress was organised in Istanbul Turkey IMAM 2019 is the eighteenth edition and in its nearly forty years of history this biannual event has been organised throughout Europe Sustainable Development and Innovations in Marine Technologies is essential reading for academics engineers and all professionals involved in the area of sustainable and innovative marine technologies

**Computational Science and Its Applications - ICCSA 2021** Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Chiara Garau, Ivan Blečić, David Taniar, Bernady O. Apduhan, Ana Maria A. C. Rocha, Eufemia Tarantino, Carmelo Maria Torre, 2021-09-10 The ten volume set LNCS 12949 12958 constitutes the proceedings of the 21st International Conference on Computational Science and Its Applications ICCSA 2021 which was held in Cagliari Italy during September 13 16 2021 The event was organized in a hybrid mode due to the Covid 19 pandemic The 466 full and 18 short papers presented in these proceedings were carefully reviewed and selected from 1588 submissions The books cover such topics as multicore architectures blockchain mobile and wireless security sensor networks open source software collaborative and social computing systems and tools cryptography applied mathematics human computer interaction software design engineering and others Part IV of the set includes the papers on Urban and Regional Planning and the proceedings of the following workshops International Workshop on Blockchain and Distributed Ledgers Technologies and Applications BDLTA 2021 International Workshop on Computational and Applied Mathematics CAM 2021 International Workshop on Computational and Applied Statistics CAS 2021 International Workshop on Computerized Evaluation of Economic Activities Urban Spaces CEEA 2021 The chapters Automated Housing Price Valuation and Spatial Data Spatial Automated Valuation Model sAVM From the Notion of Space to the Design of an Evaluation Tool and A MCDA GIS Based

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*Tools, Techniques & Approaches for Sustainability* William R. Sheate, 2010 This unique volume brings together key writings from experts drawn from the first ten years of the Journal of Environmental Assessment Policy and Management JEAPM launched in 1999 as a forum for encouraging better linkages between environmental assessment and management tools The book is structured around four themes that focus on the characteristics of tools that influence their ability to link together effectively The Nature of Tools the Nature of Decision Making and Institutional Context the Nature of Engagement and The Nature of Sustainability Edited and introduced by William Sheate founding and present editor of JEAPM The book provides an analysis of what makes for successful linking of assessment and management tools supported by theoretical and practical examples Key authors include Roland Clift David Gadenne Robert Gibson Neils Faber Thomas Fischer David Lawrence Marings Nilsson Bronwyn Ridgway and Frank Vanclay

**Methods in Sustainability Science** Jingzheng Ren, 2021-08-05 Methods in Sustainability Science Assessment Prioritization Improvement Design and Optimization presents cutting edge detailed methodologies needed to create sustainable growth in any field or industry including life cycle assessments building design and energy systems The book utilized a systematic structured approach to each of the methodologies described in an interdisciplinary way to ensure the methodologies are applicable in the real world including case studies to demonstrate the methods The chapters are written by a global team of authors in a variety of sustainability related fields Methods in Sustainability Science Assessment Prioritization Improvement Design and Optimization will provide academics researchers and practitioners in sustainability especially environmental science and environmental engineering with the most recent methodologies needed to maintain a sustainable future It is also a necessary read for postgraduates in sustainability as well as academics and researchers in energy and chemical engineering who need to ensure their industrial methodologies are sustainable Provides a comprehensive overview of the most recent methodologies in sustainability assessment prioritization improvement design and optimization Sections are organized in a systematic and logical way to clearly present the most recent methodologies for sustainability and the chapters utilize an interdisciplinary approach that covers all considerations of sustainability Includes detailed case studies demonstrating the efficacies of the described methods

**Assessing and Measuring Environmental Impact and Sustainability** Jiří Jaromír Klemeš, 2015-01-20 Assessing and Measuring Environmental Impact and Sustainability answers the question what are the available methodologies to assess the environmental sustainability of a product system or process Multiple well known authors share their expertise in order to give a broad perspective of this issue from a chemical and environmental engineering perspective This mathematical quantitative book includes many case studies to assist with the practical application of environmental and sustainability methods Readers learn how to efficiently assess and use these methods This book summarizes all relevant environmental methodologies to assess the sustainability of a

product and tools in order to develop more green products or processes With life cycle assessment as its main methodology this book speaks to engineers interested in environmental impact and sustainability Helps engineers to assess evaluate and measure sustainability in industry Provides workable approaches to environmental and sustainability assessment Readers learn tools to assess the sustainability of a process or product and to design it in an environmentally friendly way

**Sustainability Appraisal** Barry Dalal-Clayton, Barry Sadler, 2014-03-26 Sustainability Appraisal is a sourcebook of the state of the art of this rapidly emerging and diversifying area It draws on a wealth of international experiences and approaches to illustrate the status and scope of Sustainability Appraisal Assessment SA This comprehensive guide highlights how SA can be used to analyse and integrate the key environmental social and economic pillars of sustainability into decision making at all levels from policy to project to investment by government business and industry or international organizations Distilling both published and unpublished materials and with contributions from a range of leading experts organizations and agencies this book will be of significant value to professionals everywhere who are in need of a solid reference guide to what constitutes SA practice and more importantly how and when it can be applied *Sustainable Measures* Martin Bennett, Peter James, Leon Klinkers, 2017-09-08 Environmental and social performance measurement and reporting by business has become a high profile issue during the 1990s It is increasingly being requested by stakeholders and required by governments Companies too are finding that they need better environmental and social performance data for effective internal management And there are a growing number of standardisation initiatives such as the ISO 14031 guidelines on environmental performance evaluation or the CERES Global Reporting Initiative GRI template for sustainability reporting that are aimed at making it easier for more companies to take action and for stakeholders to compare their progress Sustainable Measures collects together most of the key work and individuals concerned with the topic from around the world Contributions include environmental and social reporting by John Elkington and colleagues at SustainAbility the GRI discussion draft Roger Adams and Martin Houldin on the FEE study of environmental reporting Janet Ranganathan of the World Resources Institute on sustainability measures and Martin Bennett and Peter James on ISO 14031 and the future of environmental performance evaluation There are also chapters examining current practice in Austria Denmark India Indonesia Japan the Netherlands and South Africa developments in electronic reporting as well as case studies of Baxter Kunert Niagara Mohawk Unox The Body Shop and the UK water industry and an analysis of leading social reports The book is essential reading for all academics campaigners policy makers and practitioners with an interest in issues such as The standardization and comparability of environmental and social performance measures Measuring and reporting on sustainable business Eco points and other means of evaluating product impacts The implementation of measurement and reporting Best practice in corporate environmental and social reporting New means of communicating environmental data Environmental performance evaluation in developing countries Assessing Progress Towards Sustainability Carmen

Teodosiu, Silvia Fiore, Almudena Hospido, 2022-04-14 Assessing Progress toward Sustainability Frameworks Tools and Case Studies provides practical frameworks for measuring progress toward sustainability in various areas of production consumption services and urban development as they relate to environmental impact A variety of policies strategies or frameworks are available at national and international levels This book presents an integrated approach to sustainability progress measurement by considering both the frameworks and methodological developments of various tools as well as their implementation in assessing the sustainability of processes products and services through a global perspective Combining methods and their application the book covers a variety of topics including lifecycle assessment risk assessment nexus thinking and connection to SDGs Organized clearly into three main sections Frameworks Tools and Case Studies this book can serve as a practical resource for researchers and practitioners alike in environmental science sustainability environmental management and environmental engineering Offers an integrated approach to sustainability assessment using the most up to date frameworks and tools Includes extensive diverse case studies to illustrate the methods and process for using the frameworks and tools outlined Provides practical insights related to challenges and opportunities to reduce environmental impacts and increase resources and energy efficiency      **Sustainability Assessment** Alan Bond, Angus Morrison-Saunders, Richard Howitt, 2012-09-10 Sustainability Assessment is an increasingly important tool for informing planning and development decisions across the globe Required by law in some countries strongly recommended in others a comprehensive analysis of why Sustainability Assessment is needed and clarification of the value laden and political nature of assessments is long overdue Currently the writing on the subject is limited and comprises for the most part guidance documents and completed assessments This book overcomes these shortcomings by simultaneously providing the knowledge inspiration and range of assessment tools in decision making students require to tackle Sustainability Assessment challenges nested within wide ranging values and sustainability grounded evidence The collection details the current state of the art in relation to Sustainability Assessment theory and practice and considers the pluralistic nature of the tool and the implications for achieving sustainable decision making The contributors set out the context for Sustainability Assessment and then outline some contested issues which can affect interpretations of whether the decision tool has been effective Current practice worldwide is assessed against a consistent framework and then solutions to some of the inherent weaknesses and causes of conflict in relation to the perceived sustainability of outcomes are put forward The book is unique in setting out state of the art in terms of Sustainability Assessment practice by focusing on those countries with developing experience It also covers emerging factors influencing effectiveness of decision making tools and evaluates how they affect the performance of Sustainability Assessment Written by authors among the leading university academics teaching impact assessment courses in the most acclaimed universities worldwide operating in this field it is ideally suited for the growing numbers of courses in impact assessment education and training      **Life Cycle Sustainability Assessment for Decision-Making** Jingzheng

Ren, Sara Toniolo, 2019-11-19 Life Cycle Sustainability Assessment for Decision Making Methodologies and Case Studies gives readers a comprehensive introduction to life cycle sustainability assessment LCSA methodology for sustainability measurement of industrial systems proposing an efficiency methodology for stakeholders and decision makers Featuring the latest methods and case studies the book will assist researchers in environmental sciences and energy to develop the best methods for LCA as well as aiding those practitioners who are responsible for making decisions for promoting sustainable development The past current status and future of LCSA Life Cycle Assessment method LCA Life Cycle Costing LCC Social Life Cycle Assessment SLCA the methodology of LCSA typical LCSA case studies limitations of LCSA and life cycle aggregated sustainability index methods are all covered in this multidisciplinary book Includes models for assessing sustainability in environmental energy engineering and economic scenarios Features case studies that help define the advantages and obstacles of real world applications Presents a complete view from theory to practice of a life cycle approach by exploring the methods and tools of sustainability assessment analysis and design of sustainability assessment

**Sustainability Performance Evaluation System in Government** Nan Chai, 2009-09-18 Progressing towards sustainable development raises important challenges to conducting performance evaluations in governments because there are neither generally accepted methods nor specific standards to be met at present Sustainability Performance Evaluation System in Government makes a conceptual contribution to public sustainability performance evaluation and develops a set of framework indicators with the help of the strategic and comprehensive approach Sustainability Balanced Scorecard As a conceptual basis for the further research and application this volume will be of great interest to researchers and practitioners at many levels of environmental sustainability public management and strategic control studies Evaluators will find methodological approaches and applied tools for their work Decision makers and managers will find it valuable to manage the social economic and environmental issues in a balanced and integrated manner Governments will also find it helpful in assisting them in establishing an evaluation system towards sustainable development

**Environmental Sustainability for Engineers and Applied Scientists** Greg Peters, Magdalena Svanström, 2019-03-14 This textbook presents key theoretical approaches to understanding issues of sustainability and environmental management perfectly bridging the gap between engineering and environmental science It begins with the fundamentals of environmental modelling and toxicology which are then used to discuss qualitative and quantitative risk assessment methods and environmental assessments of product design It discusses how business and government can work towards sustainability focusing on managerial and legal tools before considering ethics and how decisions on environmental management can be made Students will learn quantitative methods while also gaining an understanding of qualitative legal and ethical aspects of sustainability Practical applications are included throughout and there are study questions at the end of each chapter PowerPoint slides and jpegs of all the figures in the book are provided online This is the perfect textbook on environmental



studies for engineering and applied science students      Handbook of Sustainability Assessment Angus Morrison-Saunders, Jenny Pope, Alan Bond, 2015-09-25 The Handbook of Sustainability Assessment introduces the theory and practice of sustainability assessment and showcases the state of the art research The aim is to provide inspiration and guidance to students academics and practitioners alike and to contribute to the enhancement of sustainability assessment practice worldwide It emphasises how traditional impact assessment practices can be enhanced to contribute to sustainable outcomes Featuring original contributions from leading sustainability assessment researchers and practitioners it forms part of the Research Handbooks on Impact Assessment series      **Developing a Quantitative Multi-criteria Method of Sustainability Assessment** Giuseppe Tommaso Cirella, 2010 Abstract Sustainability science primarily emerged from the severe global events that had and were unfolding approximately a quarter century ago evidence from the literature review conducted in Chapter 1 exemplifies this point From this situation surfaced a number of concepts and techniques that have been tested and continue to be assessed The first step of the methodology is the literature review in which the overall picture of the discipline is established and what direction sustainability related science is headed The literature review found that the forefront of this research endeavours to adapt quantitative sustainability concepts into a method that can assess and analyse a geographical area To undertake this challenge the index of sustainable functionality ISF model is used via a quantitative multi criteria method This method of sustainability assessment establishes a historical and current state of functionality within a geographical area by producing a trend like record In sustainability terms the ISF model uses an approach that calculates the adaptive quantitative results of a geographical area over a record period of time the methodology in Chapter 2 describes the model s concept of assessment by way of actions via societal performance and ranking The structure of the model is based on an engineering viewpoint its key components umbrella a societal framework that encompasses an intertwined relationship using a triple bottom line TBL approach The formation of this model is founded on a number of aspects ideas and methodologies based on initial models of sustainability assessment These initial forms to mention a few include environmental accounting integrated assessment and ecological footprint have helped to establish the current settings of the discipline of sustainability science and the significance of related research The methodology is broken down into two main components 1 structure methodology which is framed around five steps that identify and define variables and 2 mathematical formulation which is used to calculate ISF records An examination of the formulae used also shows evidence that the principal ideas can be linked to a redefinition of sustainability this is not the intention of this study though in a quantitative sense the use of an action being functional or dysfunctional within society can be interpreted in this way Actions include perspectives functions and indicators and sub indicator s the analysis process is limited to the use of two types of data datasets based on indicators and sub indicator s used to formulate functions and data from the weightings process that being from the expert panel and the community telephone questionnaires The data from the weightings process

utilises the formulated functions and is the basis for the formulation of the system vi perspective cross reference matrix This design is a stepladder process methodology and is the fundamental concept of the ISF s multi criteria assessment This report has two applications that examine the Australian regions of South East Queensland SEQ and the State of Queensland the proposed index based model is tested over a time span of 25 years from 1980 to 2005 The primary focus of the methodology is aimed at the SEQ region acting as the mode s core focus for its experimentation and development The SEQ region is broken down into four sub regions which encompass a total of eighteen councils using the council structure from pre 15 March 2008 For these regions ISF records are developed and analytically discussed as results in Chapter 3 The results once merged form the ISF of SEQ and detail a slow to moderate increase in level of functionality The result in sustainability terms formulate an increase in functional growth rate of 15.38% equating to an average annual growth rate of 0.62% For the span of the study this is positive result showing evidence of a growth in knowledge and awareness of sound TBL measures region wide As an extension to the SEQ study an ISF application of the entire State of Queensland is conducted in Chapter 4 The ISF of the State of Queensland is a case study that uses similar methodology and structure to the SEQ project and demonstrates the applicability and scalability of the model at large For the State of Queensland the ISF result closely mirrors its smaller SEQ corner it is inferred that since SEQ is partially the concluding ISF result of the State application similar ISF records would be produced In addition to the main report there are six annexes that further detail support and explain subject matter and findings throughout the dissertation Annex 1 thru 6 Due to the length of the annexes they have been included as supplementary material As the key contributing factor of this report the development of an ISF model using a quantitative multi criteria method reveals a transposable approach to assessing other areas within Australia and internationally It is this transposability via produced traceable records that current and future generations may better utilise decision making and managerial planning when considering the sustainable development crisis The intentions of this report is not to produce a solution to this crisis it is aimed at adding to the knowledge base of the sustainability science and promoting a cleaner safer society with sustainable higher standards of living that support future generations From this standpoint it is hopeful that the methodologies utilised in this report can further the interdisciplinary work and help bring together technical communicative innovation in a vital field of research

**Quantitative Methods for Current Environmental Issues** Clive W. Anderson, Vic Barnett, Philip C. Chatwin, Abdel H. El-Shaarawi, 2012-12-06 It is increasingly clear that good quantitative work in the environmental sciences must be genuinely interdisciplinary This volume the proceedings of the first combined TIES SPRUCE conference held at the University of Sheffield in September 2000 well demonstrates the truth of this assertion highlighting the successful use of both statistics and mathematics in important practical problems It brings together distinguished scientists and engineers to present the most up to date and practical methods for quantitative measurement and prediction and is organised around four themes spatial and temporal models and methods environmental sampling and standards

atmosphere and ocean risk and uncertainty Quantitative Methods for Current Environmental Issues is an invaluable resource for statisticians applied mathematicians and researchers working on environmental problems and for those in government agencies and research institutes involved in the analysis of environmental issues

**Sustainable Measures** Martin Bennett, 2017 Environmental and social performance measurement and reporting by business has become a high profile issue during the 1990s It is increasingly being requested by stakeholders and required by governments Companies too are finding that they need better environmental and social performance data for effective internal management And there are a growing number of standardisation initiatives such as the ISO 14031 guidelines on environmental performance evaluation or the CERES Global Reporting Initiative GRI template for sustainability reporting that are aimed at making it easier for more companies to take action and for stakeholders to compare their progress Sustainable Measures collects together most of the key work and individuals concerned with the topic from around the world Contributions include environmental and social reporting by John Elkington and colleagues at SustainAbility the GRI discussion draft Roger Adams and Martin Houldin on the FEE study of environmental reporting Janet Ranganathan of the World Resources Institute on sustainability measures and Martin Bennett and Peter James on ISO 14031 and the future of environmental performance evaluation There are also chapters examining current practice in Austria Denmark India Indonesia Japan the Netherlands and South Africa developments in electronic reporting as well as case studies of Baxter Kunert Niagara Mohawk Unox The Body Shop and the UK water industry and an analysis of leading social reports The book is essential reading for all academics campaigners policy makers and practitioners with an interest in issues such as The standardization and comparability of environmental and social performance measures Measuring and reporting on sustainable business Eco points and other means of evaluating product impacts The implementation of measurement and reporting Best practice in corporate environmental and social reporting New means of communicating environmental data Environmental performance evaluation in developing countries

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