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Sustainable Urban Development Volume 1
Sustainability Appraisal: Quantitative Methods and Mathematical Techniques for
Environmental Performance Evaluation
Sustainability Assessment of Urban Systems
With Application in Queensland, Australia

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Sustainable Design and Manufacturing 2014 Part 2 Edward Elgar Publishing
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 Approach for Evaluating Accessibility to Health Facilities" are published open access under a CC BY license (Creative Commons Attribution 4.0 International License).
Developing a Quantitative Multi-criteria Method of Sustainability Assessment Elsevier
Following the 2015 Paris climate agreement, the global politics of climate change depends more than ever on national climate policies and the actions of cities, businesses, and other non-state actors, as well as the transnational governance networks that link them. The Comparative Politics of Transnational Climate Governance sheds new light on these critical trends by exploring how domestic political, economic, and social forces systematically shape patterns of non-

state actor participation in transnational climate initiatives. The book develops a common conceptual framework and uses a unique data set to explore the interplay between transnational and domestic politics and how these interactions shape the incentives and modalities of participation in transnational governance. The contributing chapters explore the role of cities, non-governmental organizations, companies, carbon markets, and regulations, as well as broader questions of effectiveness and global governance. Bringing together some of the foremost experts in the field of global governance and environmental politics, this book significantly advances our understanding of transnational governance and provides new insights for policymakers seeking to address the problem of climate change. This book was originally published as a special issue of *International Interactions*.

Sustainability

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

In recent years the concept of the resource "nexus" has been both hotly debated and widely adopted in research and policy circles. It is a powerful new way to understand and better govern the myriad complex relationships between multiple resources, actors and their security concerns. Particular attention has been paid to water, energy and food interactions, but land and materials emerge as critical too. This comprehensive handbook presents a detailed review of current knowledge about resource nexus-related frameworks, methods and governance, including a broad set of inter-disciplinary perspectives. Written by an international group of scholars and practitioners, the volume focuses on rigorous research, including tools, methods and modelling approaches to analyse resource use patterns across societies and scales from a "nexus perspective". It also provides numerous examples from political economy to demonstrate how resource nexus frameworks can illuminate issues such as land grabs, mining, renewable energy and the growing

importance of economies such as China, as well as to propose lessons and outlooks for sound governance. The volume seeks to serve as an essential reference text, source book and state-of-the-art, science-based assessment of this increasingly important topic – the resource nexus – and its utility in efforts to enhance sustainability of many kinds and implement the United Nations Sustainable Development Goals in an era of environmental and geopolitical change. *Sustainability Assessment of Renewables-Based Products* Routledge Our world is becoming more urban. More than fifty percent of the global population now lives in cities, which poses new challenges for sustainable development. This book integrates theory and methods of sustainability assessment with concepts from systems science to provide guidelines for assessing the sustainability of urban systems. It discusses different aspects of urban sustainability, from energy and housing, to mobility and health, covering social, economic and environmental factors, as well as the various stakeholders and

actors involved. The book argues for the need to find models and solutions in order to design sustainable cities of the future in light of the complexity of urban social life. Including diverse case studies from the developed and developing world, this book provides a useful reference for researchers and students from a broad range of disciplines working in the field of sustainability, as well as for environmental consultants and policy makers.

Sustainability Appraisal

Springer

Sustainability Appraisal: Quantitative Methods and Mathematical Techniques for Environmental Performance

Evaluation Springer

Science & Business Media

Introduction To

Environmental Impact

Assessment Springer

Nature

Based on original research, this first volume of a set of groundbreaking new books sets out a framework for analyzing sustainable urban development and develops a set of protocols for evaluating the sustainability of urban development. Protocols included are for sustainable urban planning, urban property

development, urban design, the construction, operation and use of buildings. Using these protocols, the book goes on to provide a directory of environmental assessment methods for evaluating the sustainability of urban development and also maps out how these assessment methods are being transformed to evaluate the environmental, economic and social sustainability of urban development. Web-based applications are increasingly being used to support this transformation and the contributors deftly cover this application and issues concerning the use of information and communication technologies for evaluating the sustainability of urban development are also dealt with. With its multidisciplinary approach, Sustainable Urban Development presents key new material for postgraduates and professionals across the built environment.

Sustainability Assessment

John Wiley & Sons

This book is a printed edition of the Special Issue "Sustainability Assessments of Buildings" that was published in

Sustainability

Researching Sustainability

Springer Nature

Sustainability is a vague concept specifically in the context of a corporate world. There are

numerous definitions for corporate sustainability and just as many ways of evaluating it. This work attempts to define, structure and assess

corporate sustainability in a standardized robust manner through

development of a comprehensive framework. The

framework is developed based on Global Reporting Initiative (GRI) guidelines

to serve as a common measure system allowing for meaningful assessment of current state and comparison

between companies in a variety of industries.

Based on this framework and earlier developed

Sustainability Assessment by Fuzzy Evaluation

(SAFE) model a quantitative method is

developed in MATLAB code. The new method is demonstrated on five

companies within software industry through

evaluation of publicly available data. The

outcome of the evaluation is a relative ranking of

companies with respect to economic, social and

environmental sustainability.

The outcome of the evaluation is a relative ranking of

companies with respect to economic, social and

environmental aspects as well as intermediate components of each. Additionally high impact components, which have the potential to improve the ranking outcome the most, are identified for one of the companies as an example of practical application of such assessment. Evaluation of these components could serve as a base for recommendations development of further management action on improving of company's sustainability.

Life Cycle Sustainability Assessment for Decision-Making Cambridge University Press

This book is for students and researchers across the social sciences who are planning, conducting and disseminating research on sustainability-related issues. Real-world sustainability problems cross many boundaries, and this is the first book to guide students and practitioners through the practical and theoretical challenges of doing interdisciplinary research in this vital and emerging area. Researching Sustainability contains many in-depth, 'hands on' accounts by expert contributors, providing real-life examples and lessons that can be put to

use immediately. Coverage includes: the general challenges that sustainability presents to researchers, including frictions between sustainability and scientific tradition; complexity; research paradigms; interdisciplinarity; social-environmental interactions; and ethical concerns. a host of social science based research methods and approaches. Each chapter presents a different method; its challenges and suitability for different situations; an in-depth example of the method in action; insights and lessons. dissemination of sustainability research findings, including influencing policy, communicating with school children and working with the media. The book concludes with a critical synthesis of issues and methods examined in the book together with a discussion of future research pathways. This book is an essential tool for students, researchers and practitioners in planning, implementing and evaluating their sustainability research. [A Sourcebook and Reference Guide to International Experience](#) BoD - Books on Demand

This monograph addresses the methodological and empirical issues relevant for the development of sustainable agriculture, with a particular focus on Eastern Europe. It relates economic growth to the other dimensions of sustainability by applying integrated methods. The book comprises five chapters dedicated to the theoretical approaches towards sustainable rural development, productivity analysis, structural change analysis and environmental footprint. The book focuses on the transformations of the agricultural sector while taking into account economic, environmental, and social dynamics. The importance of agricultural transformations to the livelihood of the rural population and food security are highlighted. Further, advanced methodologies and frameworks are presented to fathom the underlying trends in different facets of agricultural production. The authors present statistical methods used for the analysis of agricultural sustainability along with applications for agriculture in the European Union. Additionally, they discuss the measures of

efficiency, methodological approaches and empirical models. Finally, the book applies econometric and optimization techniques, which are useful for the estimation of the production functions and other representations of technology in the case of the European Union member states.

Therefore, the book is a must-read for researchers and students of agricultural and production economics, as well as policy-makers and academia in general.

Sustainability and the U.S.
EPA Columbia University Press

The three-volume set LNCS 8009-8011 constitutes the refereed proceedings of the 7th International Conference on Universal Access in Human-Computer Interaction, UAHCI 2013, held as part of the 15th International Conference on Human-Computer Interaction, HCI 2013, held in Las Vegas, USA in July 2013, jointly with 12 other thematically similar conferences. The total of 1666 papers and 303 posters presented at the HCI 2013 conferences was carefully reviewed and selected from 5210 submissions. These papers address the latest research and

development efforts and highlight the human aspects of design and use of computing systems.

The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The total of 230 contributions included in the UAHCI proceedings were carefully reviewed and selected for inclusion in this three-volume set. The 74 papers included in this volume are organized in the following topical sections: design for all methods, techniques and tools; inclusion practice; universal access to the built environment; multi-sensory and multimodal interfaces; brain-computer interfaces.

Proceedings of the 20th Eurasia Business and Economics Society Conference - Vol. 2

Springer
Introduction to Environmental Impact Assessment provides students and practitioners with a clearly structured overview of the subject, as well as critical analysis and support for further studies. Written by three authors with extensive research, training and

practical experience in EIA (Environmental Impact Assessment), the book covers the latest EIA legislation, guidance and good practice. This edition updates essential information on:

- the evolving nature of EIA
- experience of the implementation of the changing EU and UK EIA procedures
- best practice in the EIA process
- other key issues in the process, explored in an extended case studies section
- comparative EIA systems worldwide
- development of SEA/SA legislation and practice
- prospects for the future of EIA.

Although the book's focus is on the UK and the EU, the principles and techniques it describes are applicable internationally. With colour images and a new modern design, the book provides an essential introduction to EIA for undergraduate and postgraduate students on planning courses, as well as those studying environmental management and policy, environmental sciences, geography and the built environment. Planners, developers, community groups and decision-makers in government and business will also welcome the book as an

effective way to get to grips with this important and evolving subject that affects a wide range of development projects. *Individual Behaviors and Technologies for Financial Innovations* Routledge Sustainability is based on a simple and long-recognized factual premise: Everything that humans require for their survival and well-being depends, directly or indirectly, on the natural environment. The environment provides the air we breathe, the water we drink, and the food we eat. Recognizing the importance of sustainability to its work, the U.S. Environmental Protection Agency (EPA) has been working to create programs and applications in a variety of areas to better incorporate sustainability into decision-making at the agency. To further strengthen the scientific basis for sustainability as it applies to human health and environmental protection, the EPA asked the National Research Council (NRC) to provide a framework for incorporating sustainability into the EPA's principles and decision-making. This framework, Sustainability and the U.S. EPA, provides

recommendations for a sustainability approach that both incorporates and goes beyond an approach based on assessing and managing the risks posed by pollutants that has largely shaped environmental policy since the 1980s. Although risk-based methods have led to many successes and remain important tools, the report concludes that they are not adequate to address many of the complex problems that put current and future generations at risk, such as depletion of natural resources, climate change, and loss of biodiversity. Moreover, sophisticated tools are increasingly available to address cross-cutting, complex, and challenging issues that go beyond risk management. The report recommends that EPA formally adopt as its sustainability paradigm the widely used "three pillars" approach, which means considering the environmental, social, and economic impacts of an action or decision. Health should be expressly included in the "social" pillar. EPA should also articulate its vision for sustainability and develop a set of sustainability principles that would

underlie all agency policies and programs.

Navigating the Fourth Industrial Revolution

Edward Elgar Publishing

This book deals with a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. It is a discipline that addresses current issues: climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control and biodiversity depletion. This series gathers review articles that analyze current agricultural issues and knowledge, then proposes alternative solutions.

Methodologies and Case Studies Springer Nature

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 *Development of a Sustainability Assessment Methodology for UK Streetworks Projects* Cambridge University Press

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.

Methods and Case Studies
Springer Science & Business Media

This book examines the impact of the Fourth Industrial Revolution on

business strategy, marketing, management, sustainability innovation, and various kinds of industry. It provides a broad overview of ways that organisations have sought to develop a digital strategy, and explores the challenges and opportunities posed by a rapidly transforming digital world. It draws on European and Russian case studies, with chapters addressing smart cities, corporate governance, the digital single market, and agrobusiness. This book will be of interest to academics and practitioners in management and economics, who are interested in digital strategies performance in global markets.

Digital Strategies in a Global Market National Academies Press

This volume presents selected papers on recent management research from the 20th Eurasia Business and Economics Society (EBES) Conference, which was held in Vienna in 2016. Its primary goal is to showcase advances in the fields of public economics, regional studies, economic development and inequality, and economic policy-making.

Reflecting the contemporary political climate, many of the articles address the effectiveness, relevance and impact of European Union policies. In addition, the volume features empirical research from less-researched countries such as Kazakhstan, the Republic of Macedonia, Belarus, and Lithuania, among others.

A Sourcebook and Reference Guide to International Experience MDPI

This book discusses various aspects of Industry 4.0 from the perspective of information system evolution. Industry 4.0 refers to a new phase in the industrial revolution that relies heavily on interconnectivity, automation, machine learning, real-time data, the Internet of Things and blockchain technology. The interdisciplinary book addresses a number of topics related to modern information technologies, and presents innovative concepts, methods, models and tools for the development of information systems to support Industry 4.0. Focusing on artificial intelligence, collective knowledge processing and blockchain technology, it appeals to a wide

readership, including researchers, students, business managers and professionals, software developers, as well as IT and management specialists.

Monitoring Water Quality
CRC Press

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.

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