



Cities and Nature

Dan Malkinson  
Danny Czamanski  
Itzhak Benenson *Editors*

# Modeling of Land-Use and Ecological Dynamics

 Springer

# Modeling Of Land Use And Ecological Dynamics Cities And Nature

**Ashraf Dewan, Robert Corner**



## **Modeling Of Land Use And Ecological Dynamics Cities And Nature:**

Modeling of Land-Use and Ecological Dynamics Dan Malkinson, Danny Czamanski, Itzhak Benenson, 2013-12-09 As cities are rapidly expanding and encroaching into agricultural and natural areas a question of primary concern is how this expansion affects surrounding agriculture and natural landscapes This book presents a wide spectrum of both theoretical and empirical approaches to simulation and assessment of landscape dynamics The first part presents state of the art modelling approaches pertaining to land use changes entailed by the urban sprawl at different spatial resolutions and temporal time scales The second part is dedicated to case studies of the effects and consequences of the emerging urban agriculture open space patterns

**Cities and Nature** Lisa Benton-Short, John Rennie Short, Professor John Rennie Short, Professor, 2013-07-04 Cities and Nature illustrates how the city is part of the environment and how it is subject to environmental constraints and opportunities The city has been treated in geographical writings as only a social phenomena and at the same time environmental scientists have tended to ignore the urban This book reconnects the science and social science through the examination of the urban It critiques the dominant academic discourse which ignores the environmental base of urban life and living and discusses the urban natural environment and how this is subjected to social influences The book is organized around three central themes urban environment in historical context issues in urban nature relations realigning urban nature relations Ideas such as pollution as a physical environmental fact often created or impacted by economic cultural and political changes are discussed as well as viewing pollution as a social act consuming patterns of everyday activities driving showering shopping eating and how this has an environmental impact The authors reintroduce a social science perspective in examining urban nature the city and its physical environment Cities and Nature clearly illustrates the physical and social elements of the urban environment and shows how these are important to examining the city It includes further reading and boxed case studies on Bangladesh Paris Delhi Rome Cubatao Thailand Los Angeles Chicago New Orleans and Toronto This book would be an asset to students and researchers in environmental studies urban studies and planning

*Integrated Modelling of Ecosystem Services and Land-Use Change* Youjia Liang, Lijun Liu, Jiejun Huang, 2019-10-17 This book presents essential case studies on the integrated modelling of ecosystem services and land use change in the field of landscape ecology The case studies were mainly conducted in the Zhangye oasis of the Hexi corridor and the upper reaches of the Heihe river basin including Loess plateau for wind power and the inland waterways of the Yangtze River for the regulation of extreme events The book puts forward an integrated modelling method including human activities natural processes land use change and ecosystem management and explores multiple scenarios based on the interests of local managers and their implications for ecosystem services As the book demonstrates the integrated modelling method for ecosystem services and land use change can serve as a valuable tool for gauging the impact of various development scenarios in this study area and in other regions with similar characteristics In addition numerous charts and

diagrams are included in each chapter facilitating the simulation and assessment of specific land use change impacts on ecosystem services in various study areas

*Modeling Cities and Regions as Complex Systems* Roger White, Guy Engelen, Inge Uljee, 2024-06-11 The theory and practice of modeling cities and regions as complex self organizing systems presenting widely used cellular automata based models theoretical discussions and applications Cities and regions grow or occasionally decline and continuously transform themselves as they do so This book describes the theory and practice of modeling the spatial dynamics of urban growth and transformation As cities are complex adaptive self organizing systems the most appropriate modeling framework is one based on the theory of self organizing systems an approach already used in such fields as physics and ecology The book presents a series of models most of them developed using cellular automata CA which are inherently spatial and computationally efficient It also provides discussions of the theoretical methodological and philosophical issues that arise from the models A case study illustrates the use of these models in urban and regional planning Finally the book presents a new dynamic theory of urban spatial structure that emerges from the models and their applications The models are primarily land use models but the more advanced ones also show the dynamics of population and economic activities and are integrated with models in other domains such as economics demography and transportation The result is a rich and realistic representation of the spatial dynamics of a variety of urban phenomena The book is unique in its coverage of both the general issues associated with complex self organizing systems and the specifics of designing and implementing models of such systems

**The Routledge Handbook of Urbanization and Global Environmental Change** Karen Seto, William Solecki, Corrie Griffith, 2015-12-22 This volume provides a comprehensive overview of the interactions and feedbacks between urbanization and global environmental change A key focus is the examination of how urbanization influences global environmental change and how global environmental change in turn influences urbanization processes It has four thematic foci Theme 1 addresses the pathways through which urbanization drives global environmental change Theme 2 addresses the pathways through which global environmental change affects the urban system Theme 3 addresses the interactions and responses within the urban system in response to global environmental change Theme 4 centers on critical emerging research

**Historical Legacies of Land Use in Cities; Parks, Open Spaces and Potential for Green Infrastructure- Ideas of City Nature in an Urbanizing Planet** Stephanie Pincetl, Geoffrey L. Buckley, Jason Antony Byrne, Kitty Connolly, Mary L. Cadenasso, 2022-01-05

**Dynamics of Land Use and Carbon Emissions in the Context of Carbon Neutrality and Carbon Peaking** Chenxi Li, Ayyoob Sharifi, Bao-Jie He, Zhiheng Yang, 2025-01-16 The objective of achieving carbon neutrality serves as a crucial guiding principle in addressing the global issue of climate change and fostering sustainable economic growth and ecological harmony Carbon emissions from land use account for 10% of the total global carbon emissions It is an important carbon source and sink of the earth system Therefore optimizing the land spatial pattern is one of the important means to promote carbon neutralization In 1997 Kyoto Protocol emphasized that

countries could improve carbon sink capacity reduce carbon emissions and practice climate governance through afforestation forest management and farmland management In this context countries worldwide should actively optimize the land spatial pattern enhance the carbon sink capacity of terrestrial ecosystems and build a low carbon land use structure and land spatial pattern system There are mainly four types of territorial space conflicts The first is the conflict of development space which is a vicious expansion of urban space caused by excessive dependence on GDP The second is the conflict of land use space which is mainly reflected in the overlapping contradiction between cultivated land space and ecologically fragile space The third is the conflict caused by the disharmony of element space The fourth is the conflict of planning space characterized by the contradiction between ecological and construction spaces According to the IPCC report on the relationship between climate change and land the management mode of natural resources the transformation of space use and the improper allocation of factors will cause carbon sink profits and losses On the one hand land use carbon emissions may be the effect of land use control on the other hand it may also be caused by man made carbon emissions

**Nature-based Solutions for Sustainable Urban Planning** Israa H. Mahmoud,Eugenio Morello,Fabiano Lemes de Oliveira,Davide Geneletti,2022-03-04 Urban greening policies and measures have recently shown a high potential impact on the design and reshaping of the built environment especially in urban regeneration processes This book provides insights on analytical methods planning strategies and shared governance tools for successfully integrating Nature Based Solutions NBS in the urban planning practice The selected contributions present real life application cases in which the mainstreaming of NBS are investigated according to two main challenges the planning and designing of physical and spatial integration of NBS in cities on one side and the implementation of suitable shared governance models and co creation pathways on the other Chapter 5 is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com)

*Planning, Development and Management of Sustainable Cities* Tan Yigitcanlar,Md. (Liton) Kamruzzaman,2019-04-30 The concept of sustainable urban development has been pushed to the forefront of policymaking and politics as the world wakes up to the impacts of climate change and the destructive effects of the Anthropocene Climate change has emerged to be one of the biggest challenges faced by our planet today threatening both built and natural systems with long term consequences which may be irreversible While there is a vast body of literature on sustainability and sustainable urban development there is currently limited focus on how to cohesively bring together the vital issues of the planning development and management of sustainable cities Moreover it has been widely stated that current practices and lifestyles cannot continue if we are to leave a healthy living planet to not only the next generation but also to the generations beyond The current global school strikes for climate action known as Fridays for Future evidences this The book advocates the view that the focus needs to rest on ways in which our cities and industries can become green enough to avoid urban ecocide This book fills a gap in the literature by bringing together issues related to the planning development and management of cities and focusing on a triple

bottom line approach to sustainability      **Modelling Land-Use Change** Eric Koomen, John Stillwell, Aldrik Bakema, Henk J. Scholten, 2007-08-14 This book provides a full overview of land use change simulation modelling a wide range of applications a mix of theory and practice a synthesis of recent research progress and educational material for students and teachers This volume is an indispensable guide for anyone interested in the state of the art of land use modelling its background and its application      Environmental Sustainability and Global Change Luca Salvati, 2024-11-22 Environmental Sustainability and Global Change Forests Agriculture and Soils vis vis Human Disturbance offers an integrated approach to the socio environmental dynamics of the ecological economic nexus characteristic of Mediterranean landscapes Evidencing the role of policies targeting sustainable development goals in Southern Europe case studies from Italy Spain and Greece confirm the need of place specific approaches to socio ecological complexity and the partial effectiveness of generalized top down measures Authored by leading scholars in Southern Europe with eminent contributions from Eastern Europe the book identifies the intrinsic peculiarity of the environmental economic nexus characteristic of the Northern Mediterranean basin along with important regional differences Stimulating a spatial planning for rural areas the book proposes a dynamic image of Mediterranean rural landscapes providing novel interpretations conceptual definitions and operational tools designed to reduce ecological fragility and economic vulnerability Offers a holistic multidisciplinary approach to ecological and economic issues including studies spanning agronomy demography ecology and economics Contains unique case studies from comparative cases and qualitative quantitative studies with extensive geographical coverage Includes updated ecological issues of complex rural systems in the Mediterranean region and provides specialized strategies for sustainable development in these less studied areas      *Urban and Regional Data Management* Claire Ellul, Sisi Zlatanova, Massimo Rumor, Robert Laurini, 2013-05-23 The Urban Data Management Society has organised international symposia at various locations throughout Europe since 1971 and UDMS 2013 marks its second visit to London From its outset UDMS has highlighted changes and trends in urban data and urban data management However the rate of emergence of new data and new technologies has never been as rapid as it is now Trends including smart cities smart phones social media 3D modelling volunteered geographic information building information modelling and the internet of things all generate information about the urban environment and the people who live there Additionally the volume of data generated in part through such techniques has in turn resulted in research into big data how best to handle the data analyse it visualise it in different contexts Thus the challenges and opportunities facing those working with these new types of urban data are manifold Given this the general theme for UDMS 2013 was Recent and Emerging Trends in the Management of New Urban Data This book contains 20 papers selected from the long papers that were submitted for UDMS 2013 Each paper was reviewed by three independent academic reviewers from around the world both for academic quality and for clarity in communication The book is intended to be suitable for different readers from city planners and architects to academics students and policy makers and

those involved in urban planning      **Ecological Urbanism of Yoruba Cities in Nigeria** Joseph Adeniran Adedeji, 2023-08-23 This book offers in depth ethnographic analyses of key informants interviews on the ecological urbanism and ecosystem services ES of selected green infrastructure GI in Yoruba cities of Ile Ife Ibadan Osogbo Lagos Abeokuta Akure Ondo among others in Southwest Nigeria It examines the Indigenous Knowledge System IKS demonstrated for wellbeing through home gardens by this largest ethno linguistic group in Nigeria This is in addition to the ES of Osun Grove UNESCO World Heritage Site Osogbo Biological Garden and Park Akure Lekki Conservation Centre Lagos Adekunle Fajuyi Park Ado Ekiti Muri Okunola Park Lagos and some institutional GI including University of Ibadan Botanical Gardens Ibadan Federal University of Agriculture Abeokuta Botanical Garden Abeokuta and University of Lagos Lagoon Front Resort Lagos Nigeria The study draws on theoretical praxis of Western biophilic ideologies spirit ontologies of the Global South and largely Millennium Ecosystem Assessment 2005 to examine eco cultural green spaces home gardens and English types of parks and gardens as archetypes of GI in Yoruba traditional urbanism colonial and post colonial city planning The book provides methods of achieving a form of modernized traditionalism as means of translating the IKS into design strategies for eco cultural cities The strategies are framework model and ethnographic design algorithms that are syntheses of the lived experiences of the key informants      *Agriculture and Climate Beyond 2015* Floor Brouwer, Bruce A. McCarl, 2006-02-20 Interactions between agriculture climate and patterns of land use are complex Major changes in agriculture and land use patterns are foreseen in the next couple of decades in response to shifts in climate greenhouse gas management initiatives population growth and other forces The book explores key interactions between changes in agriculture patterns of land use and efforts to reduce greenhouse emissions from agriculture The volume is based on inter disciplinary science and policy interactions exploring the way land use may aid in addressing or be affected by the onset of climate change and alterations in food demand Future forces shaping land use decisions are examined and its sensitivity to climate change is highlighted Patterns of land use and the agricultural role in climate change mitigation are explored Also policy and social responses to the new perspectives on future land use patterns are identified The perspective of the book is beyond the year 2015

**Urbanization, Biodiversity and Ecosystem Services: Challenges and Opportunities** Thomas Elmqvist, Michail Fragkias, Julie Goodness, Burak Güneralp, Peter J. Marcotullio, Robert I. McDonald, Susan Parnell, Maria Schewenius, Marte Sendstad, Karen C. Seto, Cathy Wilkinson, 2013-09-21 Urbanization is a global phenomenon and the book emphasizes that this is not just a social technological process It is also a social ecological process where cities are places for nature and where cities also are dependent on and have impacts on the biosphere at different scales from local to global The book is a global assessment and delivers four main conclusions Urban areas are expanding faster than urban populations Half the increase in urban land across the world over the next 20 years will occur in Asia with the most extensive change expected to take place in India and China Urban areas modify their local and regional climate through the urban heat island effect and by altering

precipitation patterns which together will have significant impacts on net primary production ecosystem health and biodiversity Urban expansion will heavily draw on natural resources including water on a global scale and will often consume prime agricultural land with knock on effects on biodiversity and ecosystem services elsewhere Future urban expansion will often occur in areas where the capacity for formal governance is restricted which will constrain the protection of biodiversity and management of ecosystem services

**Nature-Based Solutions for Urban and Peri-Urban Areas** Mohammed Firoz C,Lalit Kumar Dashora,Rajib Shaw,2025-08-23 This book explores the concept of nature based solutions NbS as a sustainable approach to tackle the environmental challenges in urban and peri urban areas such as biodiversity loss and urbanization in the changing climate The book highlights the myriad benefits of NbS including enhancing resilience mitigating urban heat island effect promoting biodiversity and improving air and water quality Drawing on real world case studies from different global contexts the book provides practical examples of successful NbS implementation in various urban and peri urban settings Through an interdisciplinary lens the book discusses the science policy and governance aspects of NbS emphasizing the need for collaboration among stakeholders policymakers and communities to effectively implement the solutions It will also explore the economic benefits of NbS and how they can contribute to the well being and social equity of urban populations The book serves as an essential guide for policymakers researchers and practitioners seeking sustainable and nature centric approaches to address the environmental challenges that cities and peri urban areas face in the twenty first century

**Computational Science and Its Applications - ICCSA 2010** David Taniar,Osvaldo Gervasi,Beniamino Murgante,Eric Pardede,Bernady O. Apduhan,2010-03-16 The four volume set LNCS 6016 6019 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications ICCSA 2010 held in Fukuoka Japan in March 2010 The four volumes contain papers presenting a wealth of original research results in the field of computational science from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques The topics of the fully refereed papers are structured according to the five major conference themes computational methods algorithms and scientific application high performance computing and networks geometric modelling graphics and visualization advanced and emerging applications and information systems and technologies Moreover submissions from more than 30 special sessions and workshops contribute to this publication These cover These cover topics such as geographical analysis urban modeling spatial statistics wireless and ad hoc networking logical scientific and computational aspects of pulse phenomena in transitions high performance computing and information visualization sensor network and its applications molecular simulations structures and processes collective evolutionary systems software engineering processes and applications molecular simulations structures and processes internet communication security security and privacy in pervasive computing environments and mobile communications

Progress in Geospatial Analysis Yuji Murayama,2012-07-06 This book examines current trends and developments in the methods and



applications of geospatial analysis and highlights future development prospects. It provides a comprehensive discussion of remote sensing and geographical information system (GIS) based data processing techniques, current practices, theories, models, and applications of geospatial analysis. Data acquisition and processing techniques such as remote sensing image selections, classifications, accuracy assessments, models of GIS data, and spatial modeling processes are the focus of the first part of the book. In the second part, theories and methods related to fuzzy sets, spatial weights, and prominence, geographically weighted regression, weight of evidence, Markov cellular automata, artificial neural network, agent-based simulation, multi-criteria evaluation, analytic hierarchy process, and a GIS network model are included. Part three presents selected best practices in geospatial analysis. The chapters, all by expert authors, are arranged so that readers who are new to the field will gain an overview and important insights. Those readers who are already practitioners will gain from the advanced and updated materials and state of the art developments in geospatial analysis.

*Dhaka Megacity* Ashraf Dewan, Robert Corner, 2013-09-09. The book *Dhaka Megacity: Geospatial Perspectives on Urbanisation, Environment and Health* presents the use of geospatial techniques to address a number of environmental issues including land use change, climatic variability, urban sprawl, population density, modelling flooding, environmental health, water quality, energy resources, urban growth, modelling infectious diseases, and the quality of life. Although the work is focused on the Megacity of Dhaka in Bangladesh, the techniques and methods that are used to research these issues can be utilized in any other areas where rapid population growth coupled with unplanned urbanization is leading to environmental degradation. The book is useful for people working in the area of Geospatial Science, Urban Geography, Environmental Management, and International Development. Since the chapters in the book cover a range of environmental issues, this book describes useful tools for assisting informed decision making, particularly in developing countries.

**Quality of Life in Cities** Alessandra Michelangeli, 2015-03-27. In the last few decades, urban quality of life has received increasing interest from policy makers who aim to make cities better places to live. In addition to the aim of improving quality of life, sustainable and equitable development is also often included in the policy agendas of decision makers. This book aims to link quality of life to related issues such as sustainability, equity, and subjective well-being. While less than one third of the world's population lived in cities in 1950, about two thirds of humanity is expected to live in urban areas by 2030. This dramatic increase in the number of people living in urban areas serves as the backdrop for this book's analysis of cities. This book will be useful to students and researchers in economics, architecture, and urban planning, sociology, and political sciences, as well as policy makers.

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