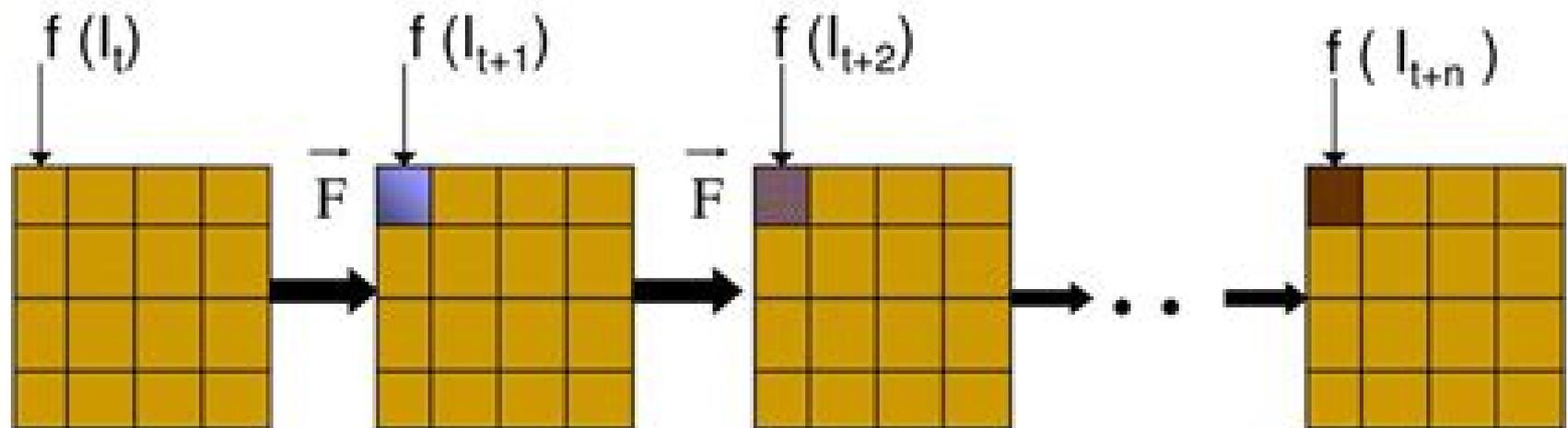




# Dynamic Spatial Models



"A dynamical spatial model is a computational representation of a real-world process where a location on the earth's surface changes in response to variations on external and internal dynamics" (Peter Burrough)

# Dynamical Spatial Models

**Ross A. Hammond**



## **Dynamical Spatial Models:**

Spatial Simulation David O'Sullivan, George L. W. Perry, 2013-08-05 A ground up approach to explaining dynamic spatial modelling for an interdisciplinary audience Across broad areas of the environmental and social sciences simulation models are an important way to study systems inaccessible to scientific experimental and observational methods and also an essential complement to those more conventional approaches The contemporary research literature is teeming with abstract simulation models whose presentation is mathematically demanding and requires a high level of knowledge of quantitative and computational methods and approaches Furthermore simulation models designed to represent specific systems and phenomena are often complicated and as a result difficult to reconstruct from their descriptions in the literature This book aims to provide a practical and accessible account of dynamic spatial modelling while also equipping readers with a sound conceptual foundation in the subject and a useful introduction to the wide ranging literature *Spatial Simulation Exploring Pattern and Process* is organised around the idea that a small number of spatial processes underlie the wide variety of dynamic spatial models Its central focus on three building blocks of dynamic spatial models forces of attraction and segregation individual mobile entities and processes of spread guides the reader to an understanding of the basis of many of the complicated models found in the research literature The three building block models are presented in their simplest form and are progressively elaborated and related to real world process that can be represented using them Introductory chapters cover essential background topics particularly the relationships between pattern process and spatiotemporal scale Additional chapters consider how time and space can be represented in more complicated models and methods for the analysis and evaluation of models Finally the three building block models are woven together in a more elaborate example to show how a complicated model can be assembled from relatively simple components To aid understanding more than 50 specific models described in the book are available online at [patternandprocess.org](http://patternandprocess.org) for exploration in the freely available Netlogo platform This book encourages readers to develop intuition for the abstract types of model that are likely to be appropriate for application in any specific context *Spatial Simulation Exploring Pattern and Process* will be of interest to undergraduate and graduate students taking courses in environmental social ecological and geographical disciplines Researchers and professionals who require a non specialist introduction will also find this book an invaluable guide to dynamic spatial simulation

*Spatiotemporal Models of Population and Community Dynamics* T. Czaran, 1998 This book presents a comprehensive typology and a comprehensible description of spatiotemporal models used in population dynamics The main types included are reaction diffusion systems patch models matapopulation approaches host parasitoid models cellular automata interacting particle systems tessellations and distance models The models are introduced through examples and with informative verbal explanations to help understanding Some of the cellular automation examples are models not yet published elsewhere Possible extensions of certain model types are suggested

*Models of Tree and Stand Dynamics*

Annikki Mäkelä, Harry T. Valentine, 2020-03-17 The book is designed to be a textbook for university students MSc PhD level and a reference for researchers and practitioners It is an introduction to dynamic modelling of forest growth based on ecological theory but aiming for practical applications for forest management under environmental change It is largely based on the work and research findings of the authors but it also covers a wide range of literature relevant to process based forest modelling in general The models presented in the book also serve as tools for research and can be elaborated further as new research findings emerge The material in the book is arranged such that the student starts from basic concepts and formulations then moves towards more advanced theories and methods finally learning about parameter estimation model testing and practical application Exercises with solutions and hands on R code are provided to help the student digest the concepts and become proficient with the methods The book should be useful for both forest ecologists who want to become modellers and for applied mathematicians who want to learn about forest ecology The basic concepts and theory are formulated in the first four chapters including a review of traditional descriptive forest models basic concepts of carbon balance modelling applied to trees and theories and models of tree and forest structure Chapter 5 provides a synthesis in the form of a core model which is further elaborated and applied in the subsequent chapters The more advanced theories and methods in Chapters 6 and 7 comprise aspects of competition through tree interactions and eco evolutionary modelling including optimisation and game theory a topical and fast developing area of ecological modelling under climate change Chapters 8 and 9 are devoted to parameter estimation and model calibration showing how empirical and process based methods and related data sources can be bridged to provide reliable predictions Chapter 10 demonstrates some practical applications and possible future development paths of the approach The approach in this book is unique in that the models presented are based on ecological theory and research findings yet sufficiently simple in structure to lend themselves readily to practical application such as regional estimates of harvest potential or satellite based monitoring of growth The applicability is also related to the objective of bridging empirical and process based approaches through data assimilation methods that combine research based ecological measurements with standard forestry data Importantly the ecological basis means that it is possible to build on the existing models to advance the approach as new research findings become available

Dynamic Spatial Models Daniel A. Griffith, R. MacKinnon, 1981-07-31 Proceedings of the NATO Advanced Study Institute Bonas France July 6 19 1980 *ENVIRONMENTAL STRUCTURE AND FUNCTION: EARTH SYSTEM* Nikita Glazovsky, Nina Zaitseva, 2009-09-16 Environmental Structure And Function Earth System is a component of Encyclopedia of Earth and Atmospheric Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This volume contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It carries state of the art knowledge in the fields of Environmental Structure and Function Earth Systems and is aimed by virtue of the several applications at the following five major target audiences

University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

**Ecology - Volume I** Antonio Bodini ,Stefan Klotz,2009-10-20 Ecology is a component of Encyclopedia of Environmental and Ecological Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Ecology is the study of the interrelationships between living organisms and their environment The term ecology was introduced by Ernst Haeckel at the end of the nineteenth century Since that time spectacular advances have been made Much has been learned about the relationship between organisms and environmental factors and about the processes that regulate the abundance and distribution of species The Theme on Ecology with contributions from distinguished experts in the field discusses the Science of Ecology for a Sustainable World The two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

**Spatial Dynamics, Networks and Modelling** Reggiani, A. Nijkamp, P.,2006 the editors have done an excellent job in bringing together a comprehensive collection of cutting edge research findings on network theory Sierdjan Koster European Spatial Research and Policy

**Service Oriented Mapping 2012** Markus Jobst,2012

**A Conceptual Approach to Dynamic Spatial Modeling Using System Dynamics** Steven L. Allenstein,1991

*A Changing World* Felix Kienast,Otto Wildi,Sucharita Ghosh,2007-03-16 Landscape Research has been established as an interdisciplinary field dealing with complex environmental processes at multiple spatial and temporal scales During the course of its history various societal technological and philosophical stimuli have shaped Landscape Research e g the declaration of Landscape Ecology in the 1930s and contemporary global technological and societal developments Modern landscape research presently uses mathematics statistics and advanced simulation techniques to combine empirical observations with known theories from ecology physics geography social science and so on Knowledge is thus updated and quantified via models that are used for estimation hypothesis testing prediction and assessment of scenarios Advances in the computational sciences e g fast computers and vast array of software space science e g remote sensing and biological sciences e g genetics as well as new perspectives in the social sciences play important roles Research findings are implemented in conservation management urban planning and global change mitigation strategies This book identifies emerging fields and new challenges that are discussed within the framework of the driving forces of Landscape Development Rather than offering a comprehensive overview of all fields of Landscape Research the book addresses hot topics emphasizing major contemporary trends in these fields

**Insect Ecology** Timothy D. Schowalter,2011-05-31 This text integrates the traditional emphases on insect diversity life history adaptations and species interactions with insect roles in ecosystems subject to environmental changes

*Ecological Issues in a Changing World* Sun-Kee Hong,John A. Lee,Byung-Sun Ihm,A. Farina,Yowhan Son,Kim Eun-Shik,Jae C. Choe,2007-11-05 Problems of scale have exercised the minds of ecologists for many years and will continue

to do so into the future This volume deals with this subject and with mathematical approaches to improve our understanding of complex ecological systems The book also concentrates on monitoring the responses of ecosystems especially to human impacts upon them The importance of spatial separation of function at both the landscape and ecosystem level forms an important theme Finally this special book focuses on large scale issues discussing in particular important applied ecological problems and how these can be managed through a variety of planning processes Many examples of major ecological problems in the mainstream ecological literature are drawn from Europe and North America In contrast many of the most pressing ecological problems are to be found elsewhere in the world This volume is composed of four parts according to scale objectives and application of modern ecological research Part I covers emerging concepts and models in the ecosystem complex and in the landscape Part II Biological responses to environmental changes pattern and process Part III Ecological networking and restoration technology theory and practice and finally a summary of 8th INTECOL Congress and possible future directions are covered in Part IV

**Landscape Simulation Modeling** Robert Costanza,Alexey Voinov,2006-06-02 The world consists of many complex systems ranging from our own bodies to ecosystems to economic systems Despite their diversity complex systems have many structural and functional features in common that can be effectively simulated using powerful user friendly software As a result virtually anyone can explore the nature of complex systems and their dynamical behavior under a range of assumptions and conditions This ability to model dynamic systems is already having a powerful influence on teaching and studying complexity The books in this series will promote this revolution in systems thinking by integrating computational skills of numeracy and techniques of dynamic modeling into a variety of disciplines The unifying theme across the series will be the power and simplicity of the model building process and all books are designed to engage the reader in developing their own models for exploration of the dynamics of systems that are of interest to them Modeling Dynamic Systems does not endorse any particular modeling paradigm or software Rather the volumes in the series will emphasize simplicity of learning expressive power and the speed of execution as priorities that will facilitate deeper system understanding

*A Stochastic-dynamical Model for Short-term Quantitative Rainfall Prediction* Tim H. Lee,Konstantine P. Georgakakos,1991

**Models of Social Dynamics** Ross A. Hammond,2006

**Mechanical Engineering, Industrial Electronics and Information Technology Applications in Industry** B.L. Liu,Ming Hai Yuan,Guo Rong Chen,Jun Peng,2013-09-27 Selected peer reviewed papers from the 2013 2nd International Conference on Mechanical Engineering Industrial Electronics and Informatization MEIEI 2013 September 14 15 2013 Chongqing China

*Modeling the Landscape as a Dynamic Mosaic of Patches* Jianguo Wu,1993

**Spatial Ecology via Reaction-Diffusion Equations** Robert Stephen Cantrell,Chris Cosner,2004-01-09 Many ecological phenomena may be modelled using apparently random processes involving space and possibly time Such phenomena are classified as spatial in their nature and include all aspects of pollution This book addresses the problem of modelling spatial effects in ecology and population dynamics using reaction diffusion

models Rapidly expanding area of research for biologists and applied mathematicians Provides a unified and coherent account of methods developed to study spatial ecology via reaction diffusion models Provides the reader with the tools needed to construct and interpret models Offers specific applications of both the models and the methods Authors have played a dominant role in the field for years Essential reading for graduate students and researchers working with spatial modelling from mathematics statistics ecology geography and biology Complex Stand Structures and Associated Dynamics Arthur Groot, Ontario. Min. of Natural Resources, 2007-07 This document provides a brief detailed summary of each presentation in the conference of Complex stand structures and associated dynamics measurement indices and modelling approaches in three page popular summary format Specifically short unedited syntheses were supplied by each author that summarize the essential information of the underlying research study including scope objectives methods results references and major conclusions The primary purpose is to document the research studies presented for the benefit of the forest science and management communities and foster onsite discussion among conference participants Document **Dynamic Spatial Models** Daniel A. Griffith, 1981

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