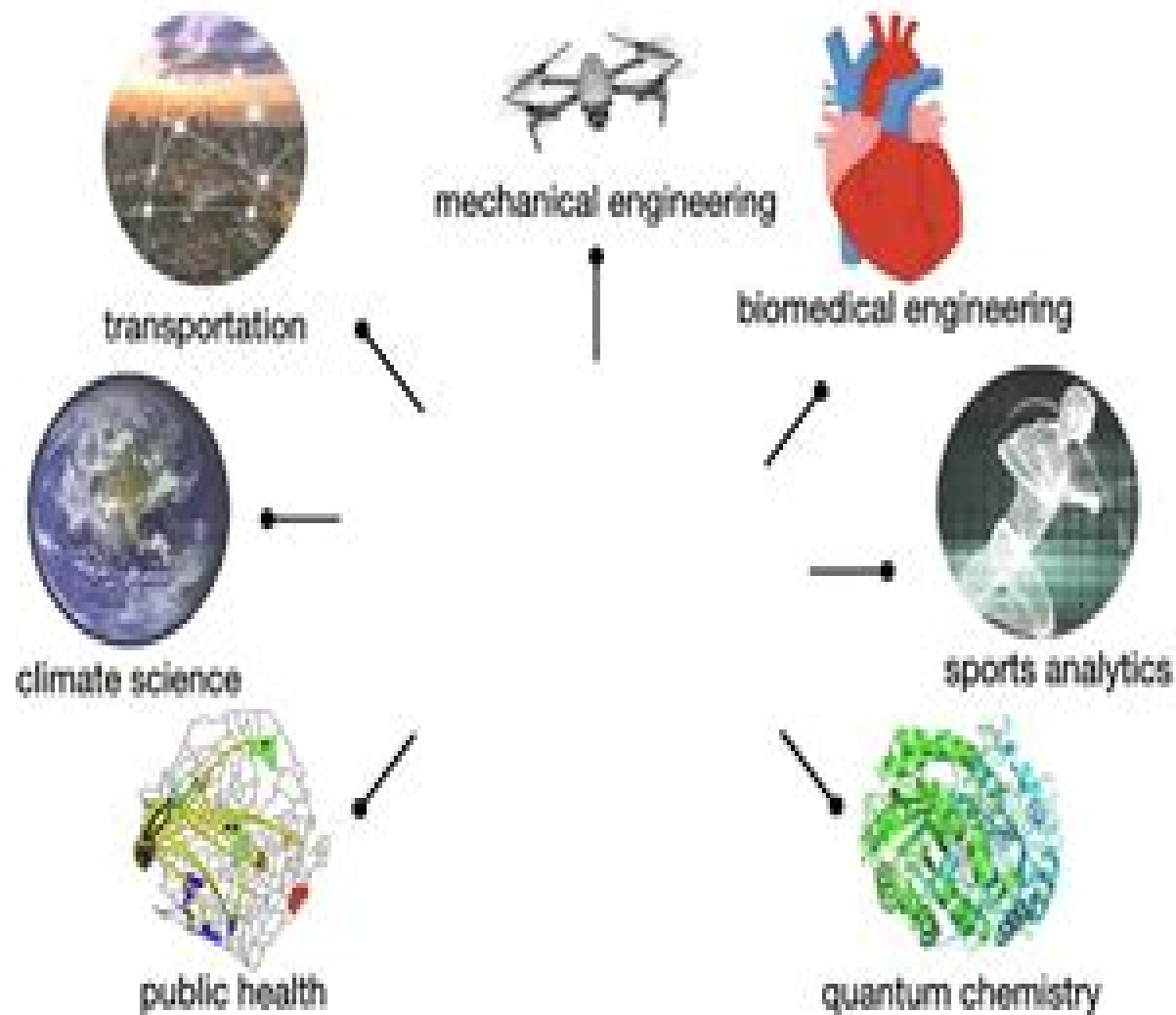
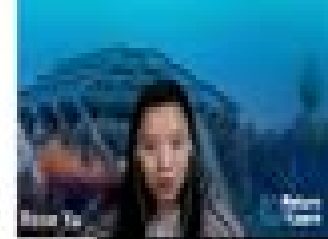


Learning Spatiotemporal Dynamics



Modeling Spatiotemporal Dynamics In Ecology

**Fred W. Allendorf, W. Chris Funk, Sally
N. Aitken, Margaret Byrne, Gordon
Luikart**



Modeling Spatiotemporal Dynamics In Ecology:

Modeling Spatiotemporal Dynamics in Ecology Jordi Bascompte, Ricard V. Sole, 1998 Throughout its history ecology has largely been a descriptive science Scientists are in need of a theoretical framework that will assist in the understanding of observed patterns and will serve as a predictive tool Since ecological systems are dynamic and spatially extended it is particularly important to understand the processes underlying spatiotemporal patterns This book reviews one of the newest and most important areas of theoretical ecology the study of spatiotemporal dynamics by means of a spatially explicit approximation that allows the investigation of the effects of real space **Spatial Modelling in Forest Ecology and**

Management Martin Jansen, Michael Judas, Joachim Saborowski, 2012-12-06 At the end of the 1970s when signs of destabilization of forests became visible in Europe on a large scale it soon became obvious that the syndrome called forest decline was caused by a network of interrelated factors of abiotic and biotic origin All attempts to explain the wide spread syndrome by a single cause and there were many of them failed or can only be regarded as a single mosaic stone in the network of causes behind the phenomenon Forest ecosystems are highly complex natural or quasi natural systems which exhibit different structures and functions and as a consequence different resilience to internal or external stresses Moreover forest ecosystems have a long history which means that former impacts may act as predisposing factors for other stresses The complexity and the different history of forest ecosystems are two reasons that make it difficult to assess the actual state and future development of forests But there are two other reasons one is the large time scale in which forests react the other is the idiosyncrasy of the reactions on different sites Due to the slow reaction and the regional complexity of the abiotic environment of forest ecosystems a profound analysis of each site and region is necessary to identify the underlying causes and driving forces when attempting to overcome the destruction of forest ecosystems *Metapopulation Ecology* Ilkka

Hanski, 1999-03-18 Written by a world renowned biologist this volume offers a comprehensive synthesis of current research in this rapidly expanding area of population biology It covers both the essential theory and a wide range of empirical studies including the author's groundbreaking work on the Glanville fritillary butterfly It also includes practical applications to conservation biology The book describes theoretical models for metapopulation dynamics in highly fragmented landscapes and emphasizes spatially realistic models It presents the incidence function model and includes several detailed examples of its application Accessible to advanced undergraduate and graduate students *Metapopulation Ecology* will be a valuable resource for researchers in population biology conservation biology and landscape ecology Modelling Environmental

Dynamics Martin Paegelow, María Teresa Camacho Olmedo, 2008-07-16 Modelling environmental dynamics is critical to understanding and predicting the evolution of the environment in response to the large number of influences including urbanisation climate change and deforestation Simulation and modelling provide support for decision making in environmental management The first chapter introduces terminology and provides an overview of methodological modelling

approaches which may be applied to environmental and complex dynamics Based on this introduction this book illustrates various models applied to a large variety of themes deforestation in tropical regions fire risk natural reforestation in European mountains agriculture biodiversity urbanism climate change and land management for decision support etc These case studies provided by a large international spectrum of researchers and presented in a uniform structure focus particularly on methods and model validation so that this book is not only aimed at researchers and graduates but also at professionals

The Spatial and Temporal Dynamics of Host-Parasitoid Interactions Michael Hassell, 2000-06-08 This book examines our current understanding of the population dynamics of one kind of interaction that between insect parasitoids and their hosts Parasitoids are amongst the most abundant of all animals and make up about 10% or more of metazoan species Almost no insect species escape their attack Host parasitoid interactions were first modelled over fifty years ago but for many years there was little good empirical information on the important factors that affect host and parasitoid populations The models were very simple and their predictions rather divorced from the complexity of what was visible in the field Now better data is available on many components of host parasitoid systems from field observations and laboratory and field experiments and this allows a much closer correspondence between models and data In particular the past twenty years have seen major advances in our understanding of how host parasitoid interactions are influenced by spatial processes by age structure effects and by competition from additional host and parasitoid species The result is a body of theory that makes direct contact with real systems in the field and provides us with a detailed understanding of what underpins a whole area of population dynamics In this book Michael P Hassell pulls the theory and field data together to present an elegant illustration of the way in which ecological studies advance

Self-Organization in Complex Ecosystems Ricard Solé, Jordi Bascompte, 2012-01-06 Can physics be an appropriate framework for the understanding of ecological science Most ecologists would probably agree that there is little relation between the complexity of natural ecosystems and the simplicity of any example derived from Newtonian physics Though ecologists have long been interested in concepts originally developed by statistical physicists and later applied to explain everything from why stock markets crash to why rivers develop particular branching patterns applying such concepts to ecosystems has remained a challenge Self Organization in Complex Ecosystems is the first book to clearly synthesize what we have learned about the usefulness of tools from statistical physics in ecology Ricard Sol and Jordi Bascompte provide a comprehensive introduction to complex systems theory and ask do universal laws shape the structure of ecosystems at least at some scales They offer the most compelling array of theoretical evidence to date of the potential of nonlinear ecological interactions to generate nonrandom self organized patterns at all levels Tackling classic ecological questions from population dynamics to biodiversity to macroevolution the book's novel presentation of theories and data shows the power of statistical physics and complexity in ecology Self Organization in Complex Ecosystems will be a staple resource for years to come for ecologists interested in

complex systems theory as well as mathematicians and physicists interested in ecology *Integrating Ecology and Evolution in a Spatial Context* Jonathan Silvertown, Janis Antonovics, 2001-08 The profound consequences of the deceptively obvious statement that plants stand still but their genes don't are only just becoming clear In this volume an international team of authors experts in the field of population biology aim to advance our understanding of ecological and evolutionary processes by integrating them within a common frame of reference space Processes operating at three different spatial scales are examined that of the population metapopulation and the geographical range Themes that recur at these different scales include spatial population dynamics population genetics at boundaries the imprint of spatial population dynamics upon genetic structure adaptation evolution of mating systems and the consequences of population genetics for ecological dynamics Whilst the focus is largely on plants the questions addressed are equally applicable to animals It will be a valuable tool for researchers and advanced students not only in this field but also evolutionary biology and resource management

Mechanistic Home Range Analysis Paul R. Moorcroft, Mark A. Lewis, 2013-10-31 Spatial patterns of movement are fundamental to the ecology of animal populations influencing their social organization mating systems demography and the spatial distribution of prey and competitors However our ability to understand the causes and consequences of animal home range patterns has been limited by the descriptive nature of the statistical models used to analyze them In *Mechanistic Home Range Analysis* Paul Moorcroft and Mark Lewis develop a radically new framework for studying animal home range patterns based on the analysis of correlated random walk models for individual movement behavior They use this framework to develop a series of mechanistic home range models for carnivore populations The authors analysis illustrates how in contrast to traditional statistical home range models that merely describe pattern mechanistic home range models can be used to discover the underlying ecological determinants of home range patterns observed in populations make accurate predictions about how spatial distributions of home ranges will change following environmental or demographic disturbance and analyze the functional significance of the movement strategies of individuals that give rise to observed patterns of space use By providing researchers and graduate students of ecology and wildlife biology with a more illuminating way to analyze animal movement *Mechanistic Home Range Analysis* will be an indispensable reference for years to come Food Webs at the

Landscape Level Gary A. Polis, Mary E. Power, Gary R. Huxel, 2004-02-22 Paying special attention to the fertile boundaries between terrestrial freshwater and marine ecosystems this work shows not only what this new methodology means for ecology conservation and agriculture but also serves as a fitting tribute to Gary Polis and his major contributions to the field

Birds and Climate Change, 2004-11-13 Temperature and other climate variables are currently changing at a dramatic rate As observations have shown these climatic changes have serious consequences for all organisms and their ability to adapt to changing environmental conditions Birds are excellent model organisms with a very active metabolism they are highly sensitive to environmental changes and as highly mobile creatures they are also extremely reactive *Birds and Climate*

Change discusses our current knowledge of observed changes and provides guidelines for studies in the years to come so we can document and understand how patterns of changing weather conditions may affect birds Provides reviews of long term datasets Incorporates meta analyses of studies about climate change effects on birds Includes guidelines and suggestions for further studies Complexity and Ecosystem Management Marco Janssen,2002-01-01 The quality of ecosystems is affected by the actions of different stakeholders who use them in a variety of ways In order to understand this complex relationship between humans and nature it is vital to understand the complexity of the interacting agents The authors in this book attempt to do this by applying multi agent systems to the problems of ecosystem management The multi agent approach to ecosystem management is a relatively new and rapidly developing field which takes a formal computational approach towards the interaction of humans with their environment The authors highlight some of the promising new methodologies which are emerging in the field from disciplines such as computer science and computational social science They move on to address a number of important topics including diffusion processes common pool resources land use change and the participatory use of models in an attempt to solve contemporary management issues They clearly demonstrate the potential utility of multi agent systems in the context of theoretical problems and practical case studies *Mathematical Biology II* James D. Murray,2006-05-31 It has been over a decade since the release first edition of the now classic original edition of Murray s *Mathematical Biology* Since then mathematical biology and medicine has grown at an astonishing rate and has established itself as a distinct discipline Mathematical modelling is now being applied in every major discipline in the biomedical sciences Though the field has become increasingly large and specialized this book remains important as a text that introduces some of the exciting problems which arise in the biomedical sciences and gives some indication of the wide spectrum of questions that modelling can address Due to the tremendous development in recent years this new edition is being published in two volumes This second volume covers spatial models and biomedical applications For this new edition Murray covers certain items in depth introducing new applications such as modelling growth and control of brain tumours bacterial patterns wound healing and wolf territoriality In other areas he discusses basic modelling concepts and provides further references as needed He also provides even closer links between models and experimental data throughout the text Graduate students and researchers will find this book invaluable as it gives an excellent background from which to begin genuinely practical interdisciplinary research in the biomedical sciences *Statistical Approaches for Hidden Variables in Ecology* Nathalie Peyrard,Olivier Gimenez,2022-03-08 The study of ecological systems is often impeded by components that escape perfect observation such as the trajectories of moving animals or the status of plant seed banks These hidden components can be efficiently handled with statistical modeling by using hidden variables which are often called latent variables Notably the hidden variables framework enables us to model an underlying interaction structure between variables including random effects in regression models and perform data clustering which are useful tools in the analysis of ecological

data This book provides an introduction to hidden variables in ecology through recent works on statistical modeling as well as on estimation in models with latent variables All models are illustrated with ecological examples involving different types of latent variables at different scales of organization from individuals to ecosystems Readers have access to the data and R codes to facilitate understanding of the model and to adapt inference tools to their own data **Butterflies** Carol L.

Boggs, Ward B. Watt, Paul R. Ehrlich, 2019-06-15 In *Butterflies Ecology and Evolution Taking Flight* the world's leading experts synthesize current knowledge of butterflies to show how the study of these fascinating creatures as model systems can lead to deeper understanding of ecological and evolutionary patterns and processes in general The twenty six chapters are organized into broad functional areas covering the uses of butterflies in the study of behavior ecology genetics and evolution systematics and conservation biology Especially in the context of the current biodiversity crisis this book shows how results found with butterflies can help us understand large rapid changes in the world we share with them for example geographic distributions of some butterflies have begun to shift in response to global warming giving early evidence of climate change that scientists politicians and citizens alike should heed The first international synthesis of butterfly biology in two decades *Butterflies Ecology and Evolution Taking Flight* offers students scientists and amateur naturalists a concise overview of the latest developments in the field Furthermore it articulates an exciting new perspective of the whole group of approximately 15 000 species of butterflies as a comprehensive model system for all the sciences concerned with biodiversity and its preservation Contributors Carol L. Boggs Paul M. Brakefield Adriana D. Briscoe Dana L. Campbell Elizabeth E. Crone Mark Deering Henri Descimon Erika I. Deinert Paul R. Ehrlich John P. Fay Richard French Constant Sherri Fownes Lawrence E. Gilbert Andr. Gilles Ilkka Hanski Jane K. Hill Brian Huntley Niklas Janz Greg Kareofelas Nusha Keyghobadi P. Bernhard Koch Claire Kremen David C. Lees Jean Francois Martin Ant nia Monteiro Paulo C. sar Motta Camille Parmesan William D. Patterson Naomi E. Pierce Robert A. Raguso Charles Lee Remington Jens Roland Ronald L. Rutowski Cheryl B. Schultz J. Mark Scriber Arthur M. Shapiro Michael C. Singer Felix Sperling Curtis Strobeck Aram Stump Chris D. Thomas Richard VanBuskirk Hans Van Dyck Richard I. Vane Wright Ward B. Watt Christer Wiklund and Mark A. Willis *Theoretical Ecology* Robert

May, Angela R. McLean, 2007-02-15 Publisher description *Landscape Ecology in Theory and Practice* Monica G. Turner, Robert H. Gardner, Robert V. O'Neill, 2007-05-08 An ideal text for students taking a course in landscape ecology The book has been written by very well known practitioners and pioneers in the new field of ecological analysis Landscape ecology has emerged during the past two decades as a new and exciting level of ecological study Environmental problems such as global climate change land use change habitat fragmentation and loss of biodiversity have required ecologists to expand their traditional spatial and temporal scales and the widespread availability of remote imagery geographic information systems and desk top computing has permitted the development of spatially explicit analyses In this new text book this new field of landscape ecology is given the first fully integrated treatment suitable for the student Throughout the

theoretical developments modeling approaches and results and empirical data are merged together so as not to introduce barriers to the synthesis of the various approaches that constitute an effective ecological synthesis The book also emphasizes selected topic areas in which landscape ecology has made the most contributions to our understanding of ecological processes as well as identifying areas where its contributions have been limited Each chapter features questions for discussion as well as recommended reading

Global Forest Fragmentation Chris J Kettle,Lian Pin Koh,2014-09-12

Forest fragmentation will inevitably continue over the coming years especially in developing economies This book provides a cutting edge review of the multi disciplinary sciences related to studies of global forest fragmentation It specifically addresses cross cutting themes from both an ecological and a social sciences perspective The ultimate goal of Global Forest Fragmentation is to provide a detailed scientific base to support future forest landscape management and planning to meet global environmental and societal needs

Plant Variation and Evolution David Briggs,S. Max Walters,2016-06-30

The long awaited fourth edition of a classic text now fully revised and updated for the molecular era

Conservation and the Genomics of Populations Fred W. Allendorf,W. Chris Funk,Sally N. Aitken,Margaret Byrne,Gordon Luikart,2022-02-10

The relentless loss of biodiversity is among the greatest problems facing the world today The third edition of this established textbook provides an updated and comprehensive overview of the essential background concepts and tools required to understand how genetics can be used to conserve species reduce threat of extinction and manage species of ecological or commercial importance This edition is thoroughly revised to reflect the major contribution of genomics to conservation of populations and species It includes two new chapters Genetic Monitoring and a final Conservation Genetics in Practice chapter that addresses the role of science and policy in conservation genetics New genomic techniques and statistical analyses are crucial tools for the conservation geneticist This accessible and authoritative textbook provides an essential toolkit grounded in population genetics theory coupled with basic and applied research examples from plants animals and microbes The book examines genetic and phenotypic variation in natural populations the principles and mechanisms of evolutionary change evolutionary response to anthropogenic change and applications in conservation and management Conservation and the Genomics of Populations helps demystify genetics and genomics for conservation practitioners and early career scientists so that population genetic theory and new genomic data can help raise the bar in conserving biodiversity in the most critical 20 year period in the history of life on Earth It is aimed at a global market of applied population geneticists conservation practitioners and natural resource managers working for wildlife and habitat management agencies It will be of particular relevance and use to upper undergraduate and graduate students taking courses in conservation biology conservation genetics and wildlife management

Individual-based Modeling and Ecology Volker Grimm,Steven F. Railsback,2013-11-28

Individual based models are an exciting and widely used new tool for ecology These computational models allow scientists to explore the mechanisms through which population and ecosystem ecology

arises from how individuals interact with each other and their environment This book provides the first in depth treatment of individual based modeling and its use to develop theoretical understanding of how ecological systems work an approach the authors call individual based ecology Grimm and Railsback start with a general primer on modeling how to design models that are as simple as possible while still allowing specific problems to be solved and how to move efficiently through a cycle of pattern oriented model design implementation and analysis Next they address the problems of theory and conceptual framework for individual based ecology What is theory That is how do we develop reusable models of how system dynamics arise from characteristics of individuals What conceptual framework do we use when the classical differential equation framework no longer applies An extensive review illustrates the ecological problems that have been addressed with individual based models The authors then identify how the mechanics of building and using individual based models differ from those of traditional science and provide guidance on formulating programming and analyzing models This book will be helpful to ecologists interested in modeling and to other scientists interested in agent based modeling

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