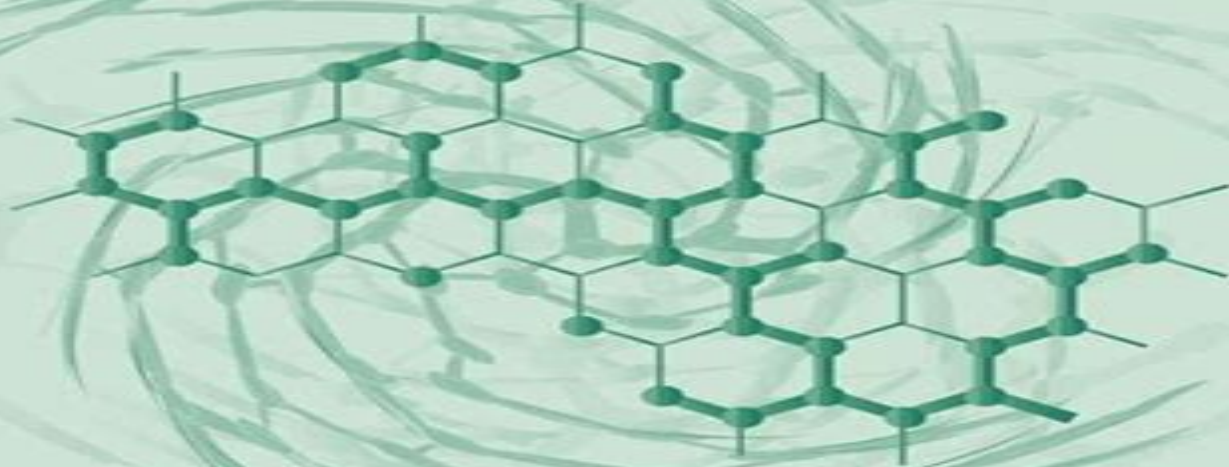


Cambridge Studies in Adaptive Dynamics

# **The Geometry of Ecological Interactions**

## **Simplifying Spatial Complexity**



Edited by  
U. Dieckmann, R. Law, and J.A.J. Metz

# Geometry Of Ecological Interactions Simplifying Spatial Complexity

**Martin A. Nowak**



## **Geometry Of Ecological Interactions Simplifying Spatial Complexity:**

The Geometry of Ecological Interactions Ulf Dieckmann, Richard Law, Johan A. J. Metz, 2000-05-04 The field of theoretical ecology has expanded dramatically in the last few years This volume gives detailed coverage of the main developing areas in spatial ecological theory and is written by world experts in the field Integrating the perspective from field ecology with novel methods for simplifying spatial complexity it offers a didactical treatment with a gradual increase in mathematical sophistication from beginning to end In addition the volume features introductions to those fundamental phenomena in spatial ecology where emerging spatial patterns influence ecological outcomes quantitatively An appreciation of the consequences of this is required if ecological theory is to move on in the 21st century Written for researchers and graduate students in theoretical evolutionary and spatial ecology applied mathematics and spatial statistics it will be seen as a ground breaking treatment of modern spatial ecological theory

Advanced Ecological Theory J. McGlade, 2009-04-01 Advanced Ecological Theory is intended for both postgraduate students and professional researchers in ecology It provides an overview of current advances in the field as well as closely related areas in evolution ecological economics and natural resource management familiarizing the reader with the mathematical computational and statistical approaches used in these different areas The book has an exciting set of diverse contributions written by leading authorities

**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

*Adaptive Speciation* Ulf Dieckmann, 2004-09-02 First published in 2004 this book by internationally recognized leaders in the field clarifies how adaptive processes rather than geographic isolation can cause speciation

Bioeconomic Modelling and Valuation of Exploited Marine Ecosystems J.C.J.M. van den Bergh, J. Hoekstra, R. Imeson, P.A.L.D. Nunes, A.T. de Blaeij, 2006-06-19 Economic dimensions have been somewhat neglected in research on nature policy and management of marine ecosystem exploitation The current book aims to fill this gap It examines the mismatches of natural socio economic and regulatory processes and regimes in time and space This involves dealing with the complexity and uncertainty that are inherent to the interaction of marine ecosystems and economic systems The approach adopted is

based on the idea that the design of sustainability policies requires an integration of insights from resource environmental and ecological economics on the one hand and marine biology and environmental sciences on the other hand. For this purpose use is made of integrated assessment on the basis of theoretical and applied mathematical models. The book is the result of a large project hosted by the Department of Spatial Economics of the Free University in Amsterdam under the supervision of the first author. The project received funding from the Netherlands Organisation for Scientific Research (NWO) through a priority program titled Sustainable Use and Conservation of Marine Living Resources which was initiated and coordinated by Prof. Wim Wolff of the University of Groningen. The work reported here has greatly benefited from external advice given by marine biologists who participated in this research program.

**Ecology, Genetics and Evolution of Metapopulations** Ilkka A. Hanski, Oscar E. Gaggiotti, 2004-05-17 Ecology, Genetics and Evolution of Metapopulations is a collection of specially commissioned articles that looks at fragmented habitats bringing together recent theoretical advances and empirical studies applying the metapopulation approach. Several chapters closely integrate ecology with genetics and evolutionary biology and others illustrate how metapopulation concepts and models can be applied to answer questions about conservation, epidemiology and speciation. The extensive coverage of theory from highly regarded scientists and the many substantive applications in this one of a kind work make it invaluable to graduate students and researchers in a wide range of disciplines. Provides a comprehensive and authoritative account of all aspects of metapopulation biology integrating ecology, genetics and evolution. Developed by recognized experts including Hanski who won the Balzan Prize for Ecological Sciences. Covers novel applications of the metapopulation approach to conservation.

*Evolutionary Conservation Biology* Régis Ferrière, Ulf Dieckmann, Denis Couvet, 2004-06-10 As anthropogenic environmental changes spread and intensify across the planet, conservation biologists have to analyze dynamics at large spatial and temporal scales. Ecological and evolutionary processes are then closely intertwined. In particular, evolutionary responses to anthropogenic environmental change can be so fast and pronounced that conservation biology can no longer afford to ignore them. To tackle this challenge, areas of conservation biology that are disparate ought to be integrated into a unified framework. Bringing together conservation genetics, demography and ecology, this book introduces evolutionary conservation biology as an integrative approach to managing species in conjunction with ecological interactions and evolutionary processes. Which characteristics of species and which features of environmental change foster or hinder evolutionary responses in ecological systems? How do such responses affect population viability, community dynamics and ecosystem functioning? Under which conditions will evolutionary responses ameliorate rather than worsen the impact of environmental change?

**The Major Transitions in Evolution Revisited** Brett Calcott, Kim Sterelny, 2011-04-22 Drawing on recent advances in evolutionary biology, prominent scholars return to the question posed in a pathbreaking book: how evolution itself evolved. In 1995 John Maynard Smith and E. Szathmáry published their influential book *The Major Transitions in Evolution*. The transitions that Maynard Smith and Szathmáry chose

to describe all constituted major changes in the kinds of organisms that existed but most important these events also transformed the evolutionary process itself The evolution of new levels of biological organization such as chromosomes cells multicelled organisms and complex social groups radically changed the kinds of individuals natural selection could act upon Many of these events also produced revolutionary changes in the process of inheritance by expanding the range and fidelity of transmission establishing new inheritance channels and developing more open ended sources of variation Maynard Smith and Szathmáry had planned a major revision of their work but the death of Maynard Smith in 2004 prevented this In this volume prominent scholars including Szathmáry himself reconsider and extend the earlier book's themes in light of recent developments in evolutionary biology The contributors discuss different frameworks for understanding macroevolution prokaryote evolution the study of which has been aided by developments in molecular biology and the complex evolution of multicellularity

**Evolutionary Dynamics** Martin A. Nowak, 2006-09-29 Evolution is the one theory that transcends all of biology Nowak draws on the languages of biology and mathematics to outline the mathematical principles according to which life evolves His book makes a case for understanding every living system and everything that arises as a consequence of living systems in terms of evolutionary dynamics

**Theory-based Ecology** Liz Pásztor, Zoltán Botta-Dukát, Gabriella Magyar, Tamás Czárán, Géza Meszéna, 2016 The first text to adopt a Darwinian approach to develop a universal coherent and robust theory of ecology and provide a unified treatment of ecology and evolution

**Sixth International Conference on Information Technology , Micro Meso Macro: Addressing Complex Systems Couplings** Hans Liljenström, Uno Svedin, 2005-05-03 In the domain of science concerned with systems structure and behavior the issue of the relationship between the micro and the macro level is of key importance This book concentrates on the interplay between these levels and has a special focus on the level in between the meso level An investigation of those links is made through a number of cases from different domains of science including physics chemistry ecology social science economics and technology What is evident is that there are facets regarding meso level issues that are similar between cases but also that the domains differ in various ways This is particularly exemplified by the differences in perspectives from which the natural and social sciences deal with scaling issues The various examples provided in this book mirror its overriding theme systems complexity

**Mathematical Statistical Physics** , 2006-06-27 The proceedings of the 2005 Les Houches summer school on Mathematical Statistical Physics give a broad and clear overview on this fast developing area of interest to both physicists and mathematicians Introduction to a field of math with many interdisciplinary connections in physics biology and computer science Roadmap to the next decade of mathematical statistical mechanics Volume for reference years to come

**The Geographic Spread of Infectious Diseases** Lisa Sattenspiel, 2009-07-06 The 1918-19 influenza epidemic killed more than fifty million people worldwide The SARS epidemic of 2002-3 by comparison killed fewer than a thousand The success in containing the spread of SARS was due largely to the rapid global response of public health authorities which was aided by

insights resulting from mathematical models Models enabled authorities to better understand how the disease spread and to assess the relative effectiveness of different control strategies In this book Lisa Sattenspiel and Alun Lloyd provide a comprehensive introduction to mathematical models in epidemiology and show how they can be used to predict and control the geographic spread of major infectious diseases Key concepts in infectious disease modeling are explained readers are guided from simple mathematical models to more complex ones and the strengths and weaknesses of these models are explored The book highlights the breadth of techniques available to modelers today such as population based and individual based models and covers specific applications as well Sattenspiel and Lloyd examine the powerful mathematical models that health authorities have developed to understand the spatial distribution and geographic spread of influenza measles foot and mouth disease and SARS Analytic methods geographers use to study human infectious diseases and the dynamics of epidemics are also discussed A must read for students researchers and practitioners no other book provides such an accessible introduction to this exciting and fast evolving field

#### **Drivers of Environmental Change in Uplands**

Aletta Bonn,Tim Allott,Klaus Hubacek,Jon Stewart,2009-01-13 The uplands are a crucial source of ecosystem services such as water provision carbon retention maintenance of biodiversity provision of recreation value and cultural heritage This puts them in the focus of both environmental and social scientists as well as practitioners and land managers This volume brings together a wealth of knowledge of the British uplands from diverse but interrelated fields of study clearly demonstrating their importance in 21st Century Britain and indicating how we may through interdisciplinary approaches meet the challenges provided by past and future drivers of environmental change The upland environments are subject to change They face imminent threats as well as opportunities from pressures such as climate change changes in land management and related changes in fire risk increases in erosion and water colour degradation of habitats altered wildlife and recreational value as well as significant changes in the economy of these marginal areas This book presents up to date scientific background information addresses policy related issues and lays out pressing land management questions A number of world class experts provide a review of cutting edge natural and social science and an assessment of past current and potential future management strategies policies and other drivers of change After appraisal of key concepts and principles chapters provide specific examples and applications by focussing on UK upland areas and specifically the Peak District National Park as a key example for other highly valuable upland regions

*Adaptive Diversification* Michael Doebeli,2011-08-21 Adaptive biological diversification occurs when frequency dependent selection generates advantages for rare phenotypes and induces a split of an ancestral lineage into multiple descendant lineages Using adaptive dynamics theory individual based simulations and partial differential equation models this book illustrates that adaptive diversification due to frequency dependent ecological interaction is a theoretically ubiquitous phenomenon Provided by publisher

#### **Competition and Coexistence**

Ulrich Sommer,Boris Worm,2012-12-06 The question Why are there so many species has puzzled ecologist for a long time

Initially an academic question it has gained practical interest by the recent awareness of global biodiversity loss Species diversity in local ecosystems has always been discussed in relation to the problem of competitive exclusion and the apparent contradiction between the competitive exclusion principle and the overwhelming richness of species found in nature Competition as a mechanism structuring ecological communities has never been uncontroversial Not only its importance but even its existence have been debated On the one extreme some ecologists have taken competition for granted and have used it as an explanation by default if the distribution of a species was more restricted than could be explained by physiology and dispersal history For decades competition has been a core mechanism behind popular concepts like ecological niche succession limiting similarity and character displacement among others For some competition has almost become synonymous with the Darwinian struggle for existence although simple plausibility should tell us that organisms have to struggle against much more than competitors e.g. predators parasites pathogens and environmental harshness

*From Groups to Individuals* Frederic Bouchard, Philippe Huneman, 2013-03-22 The biological and philosophical implications of the emergence of new collective individuals from associations of living beings Our intuitive assumption that only organisms are the real individuals in the natural world is at odds with developments in cell biology ecology genetics evolutionary biology and other fields Although organisms have served for centuries as nature's paradigmatic individuals science suggests that organisms are only one of the many ways in which the natural world could be organized When living beings work together as in ant colonies beehives and bacteria metazoan symbiosis new collective individuals can emerge In this book leading scholars consider the biological and philosophical implications of the emergence of these new collective individuals from associations of living beings The topics they consider range from metaphysical issues to biological research on natural selection sociobiology and symbiosis The contributors investigate individuality and its relationship to evolution and the specific concept of organism the tension between group evolution and individual adaptation and the structure of collective individuals and the extent to which they can be defined by the same concept of individuality These new perspectives on evolved individuality should trigger important revisions to both philosophical and biological conceptions of the individual

Contributors: Frédéric Bouchard Ellen Clarke Jennifer Fewell Andrew Gardner Peter Godfrey-Smith Charles J. Goodnight Matt Haber Andrew Hamilton Philippe Huneman Samir Okasha Thomas Pradeu Scott Turner Minus van Baalen

*Agent-Based Computational Economics* Shu-Heng Chen, 2017-09-19 This book aims to answer two questions that are fundamental to the study of agent-based economic models: what is agent-based computational economics and why do we need agent-based economic modelling of economy This book provides a review of the development of agent-based computational economics (ACE) from a perspective on how artificial economic agents are designed under the influences of complex sciences: experimental economics artificial intelligence evolutionary biology psychology anthropology and neuroscience This book begins with a historical review of ACE by tracing its origins From a modelling viewpoint ACE brings truly decentralized

procedures into market analysis from a single market to the whole economy This book also reviews how experimental economics and artificial intelligence have shaped the development of ACE For the former the book discusses how ACE models can be used to analyse the economic consequences of cognitive capacity personality and cultural inheritance For the latter the book covers the various tools used to construct artificial adaptive agents including reinforcement learning fuzzy decision rules neural networks and evolutionary computation This book will be of interest to graduate students researching computational economics experimental economics behavioural economics and research methodology

**Looking Backward and Looking Forward** Harvey J. Graff, 2005 Asserting the need for social science historians to examine their own field this wide ranging volume offers an intellectual history and critical evaluation of interdisciplinary social science and social science historiography The editors present a creative experimental mix of topics and genres spanning a range of contemporary thought in the field exploring the past present and future of social science history This book comes at a time when there is great academic interest in the future of the disciplines and in their place within the organization of university education Based on the 25th anniversary conference of the Social Science History Association 2000



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