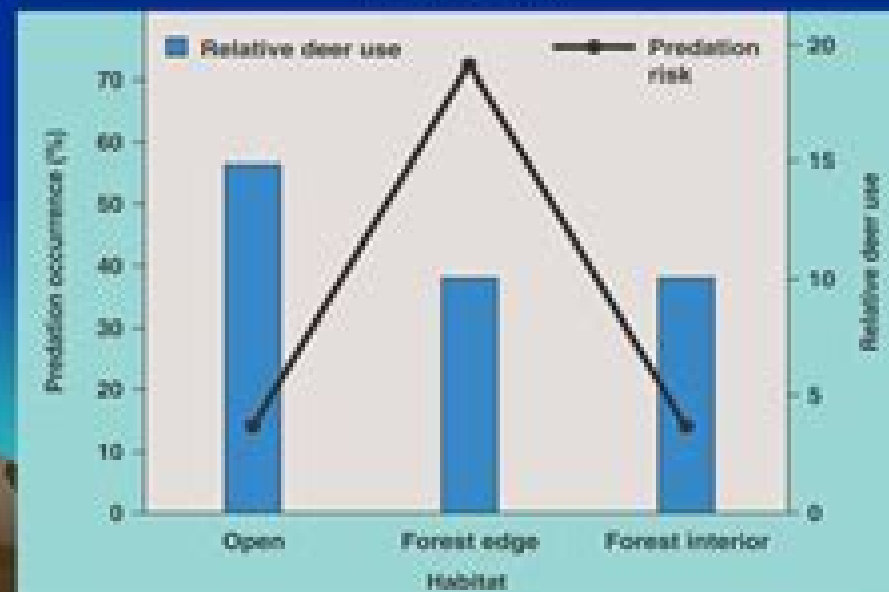
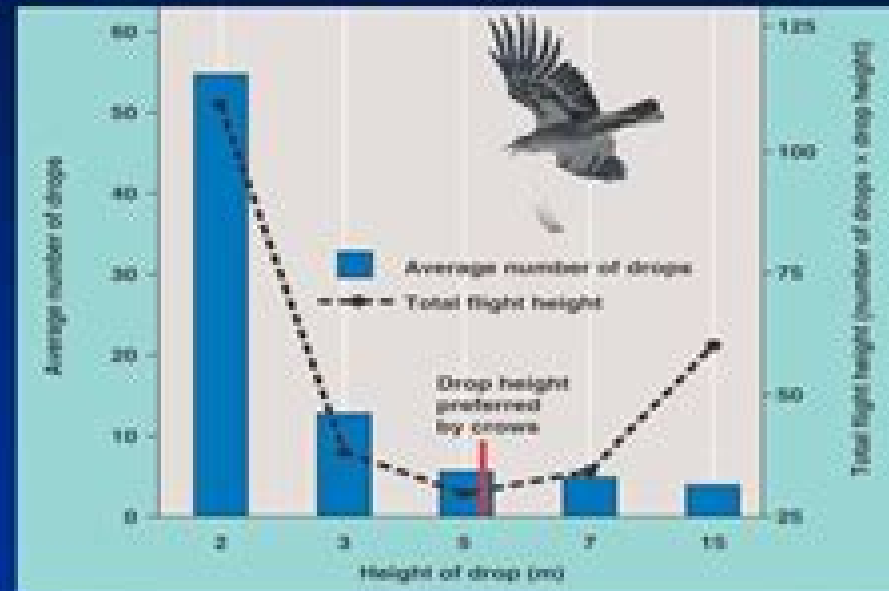


# Foraging Behavior

- Optimal Foraging Theory
- Compromise between benefits and cost of obtaining food
  - Energy cost
  - Risk of predation



# Social Foraging Theory

**A Gutmann**



## **Social Foraging Theory:**

*Social Foraging Theory* Luc-Alain Giraldeau, Thomas Caraco, 2018-06-05 Although there is extensive literature in the field of behavioral ecology that attempts to explain foraging of individuals social foraging the ways in which animals search and compete for food in groups has been relatively neglected This book redresses that situation by providing both a synthesis of the existing literature and a new theory of social foraging Giraldeau and Caraco develop models informed by game theory that offer a new framework for analysis Social Foraging Theory contains the most comprehensive theoretical approach to its subject coupled with quantitative methods that will underpin future work in the field The new models and approaches that are outlined here will encourage new research directions and applications To date the analysis of social foraging has lacked unifying themes clear recognition of the problems inherent in the study of social foraging and consistent interaction between theory and experiments This book identifies social foraging as an economic interaction between the actions of individuals and those of other foragers This interdependence raises complex questions about the size of foraging groups the diversity of resources used and the propensity of group members to exploit each other or forage cooperatively The models developed in the book will allow researchers to test their own approaches and predictions Many years in development Social Foraging Theory will interest researchers and graduate students in such areas as behavioral ecology population ecology evolutionary biology and wildlife management

*Social Foraging Theory* Luc-Alain Giraldeau, Thomas Caraco, 2000 Although there is extensive literature in the field of behavioral ecology that attempts to explain foraging of individuals social foraging the ways in which animals search and compete for food in groups has been relatively neglected This book redresses that situation by providing both a synthesis of the existing literature and a new theory of social foraging Giraldeau and Caraco develop models informed by game theory that offer a new framework for analysis Social Foraging Theory contains the most comprehensive theoretical approach to its subject coupled with quantitative methods that will underpin future work in the field The new models and approaches that are outlined here will encourage new research directions and applications To date the analysis of social foraging has lacked unifying themes clear recognition of the problems inherent in the study of social foraging and consistent interaction between theory and experiments This book identifies social foraging as an economic interaction between the actions of individuals and those of other foragers This interdependence raises complex questions about the size of foraging groups the diversity of resources used and the propensity of group members to exploit each other or forage cooperatively The models developed in the book will allow researchers to test their own approaches and predictions Many years in development Social Foraging Theory will interest researchers and graduate students in such areas as behavioral ecology population ecology evolutionary biology and wildlife management

**Information Foraging Theory: Adaptive Interaction with Information** Peter Pirolli, 2007-04-12 Although much of the hubris and hyperbole surrounding the 1990 s Internet has softened to a reasonable level the inexorable momentum of information growth continues unabated This wealth

of information provides resources for adapting to the problems posed by our increasingly complex world but the simple availability of more information does not guarantee its successful transformation into valuable knowledge that shapes guides and improves our activity When faced with something like the analysis of sense making behavior on the web traditional research models tell us a lot about learning and performance with browser operations but very little about how people will actively navigate and search through information structures what information they will choose to consume and what conceptual models they will induce about the landscape of cyberspace Thus it is fortunate that a new field of research Adaptive Information Interaction AII is becoming possible AII centers on the problems of understanding and improving human information interaction It is about how people will best shape themselves to their information environments and how information environments can best be shaped to people Its roots lie in human computer interaction HCI information retrieval and the behavioral and social sciences This book is about Information Foraging Theory IFT a new theory in Adaptive Information Interaction that is one example of a recent flourish of theories in adaptationist psychology that draw upon evolutionary ecological theory in biology IFT assumes that people indeed all organisms are ecologically rational and that human information seeking mechanisms and strategies adapt the structure of the information environments in which they operate Its main aim is to create technology that is better shaped to users Information Foraging Theory will be of interest to student and professional researchers in HCI and cognitive psychology

*Game Theory and Animal Behavior* Lee Alan Dugatkin, Hudson Kern Reeve, 2000-03-23 Game theory has revolutionized the study of animal behavior The fundamental principle of evolutionary game theory that the strategy adopted by one individual depends on the strategies exhibited by others has proven a powerful tool in uncovering the forces shaping otherwise mysterious behaviors In this volume the first since 1982 devoted to evolutionary game theory leading researchers describe applications of the theory to diverse types of behavior providing an overview of recent discoveries and a synthesis of current research The volume begins with a clear introduction to game theory and its explanatory scope This is followed by a series of chapters on the use of game theory to understand a range of behaviors social foraging cooperation animal contests communication reproductive skew and nepotism within groups sibling rivalry alternative life histories habitat selection trophic level interactions learning and human social behavior In addition the volume includes a discussion of the relations among game theory optimality and quantitative genetics and an assessment of the overall utility of game theory to the study of social behavior Presented in a manner accessible to anyone interested in animal behavior but not necessarily trained in the mathematics of game theory the book is intended for a wide audience of undergraduates graduate students and professional biologists pursuing the evolutionary analysis of animal behavior

*Social-Behavioral Modeling for Complex Systems* Paul K. Davis, Angela O'Mahony, Jonathan Pfautz, 2019-03-13 This volume describes frontiers in social behavioral modeling for contexts as diverse as national security health and on line social gaming Recent scientific and technological advances have created exciting opportunities for such

improvements However the book also identifies crucial scientific ethical and cultural challenges to be met if social behavioral modeling is to achieve its potential Doing so will require new methods data sources and technology The volume discusses these including those needed to achieve and maintain high standards of ethics and privacy The result should be a new generation of modeling that will advance science and separately aid decision making on major social and security related subjects despite the myriad uncertainties and complexities of social phenomena Intended to be relatively comprehensive in scope the volume balances theory driven data driven and hybrid approaches The latter may be rapidly iterative as when artificial intelligence methods are coupled with theory driven insights to build models that are sound comprehensible and usable in new situations With the intent of being a milestone document that sketches a research agenda for the next decade the volume draws on the wisdom ideas and suggestions of many noted researchers who draw in turn from anthropology communications complexity science computer science defense planning economics engineering health systems medicine neuroscience physics political science psychology public policy and sociology In brief the volume discusses Cutting edge challenges and opportunities in modeling for social and behavioral science Special requirements for achieving high standards of privacy and ethics New approaches for developing theory while exploiting both empirical and computational data Issues of reproducibility communication explanation and validation Special requirements for models intended to inform decision making about complex social systems

**Advances in the Study of Behavior** H. Jane Brockmann, Timothy J. Roper, Marc Naguib, Katherine E. Wynne-Edwards, Chris Barnard, John Mitani, 2011-07-29 Advances in the Study of Behavior was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior That number is still expanding This volume makes another important contribution to the development of the field by presenting theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields Advances in the Study of Behavior is now available online at ScienceDirect full text online from volume 30 onward

*Social Learning* William Hoppitt, Kevin N. Laland, 2013-07-21 Many animals including humans acquire valuable skills and knowledge by copying others Scientists refer to this as social learning It is one of the most exciting and rapidly developing areas of behavioral research and sits at the interface of many academic disciplines including biology experimental psychology economics and cognitive neuroscience Social Learning provides a comprehensive practical guide to the research methods of this important emerging field William Hoppitt and Kevin N Lala define the mechanisms thought to underlie social learning and demonstrate how to distinguish them experimentally in the laboratory They present techniques for detecting and quantifying social learning in nature including statistical modeling of the spatial distribution of behavior traits They also describe the latest theory and empirical findings on social learning strategies and introduce readers to mathematical methods and models used in the study of cultural evolution This book is an indispensable tool for researchers and an essential primer for students Provides a comprehensive practical guide to social learning research Combines theoretical and empirical approaches

Describes techniques for the laboratory and the field Covers social learning mechanisms and strategies statistical modeling techniques for field data mathematical modeling of cultural evolution and more      **How Primates Eat** Joanna E.

Lambert,Margaret A. H. Bryer,Jessica M. Rothman,2024-07-26 Exploring everything from nutrients to food acquisition and research methods a comprehensive synthesis of the study of diet and feeding in nonhuman primates What do we mean when we say that a diet is nutritious Why can some animals get all the energy they need from eating leaves while others would perish on such a diet Why don t mountain gorillas eat fruit all day as chimpanzees do Answers to these questions about food and feeding are among the many tasty morsels that emerge from this authoritative book Informed by the latest scientific tools and millions of hours of field and laboratory work on species across the primate order and around the globe this volume is an exhaustive synthesis of our understanding of what why and how primates eat State of the art information presented at physiological behavioral ecological and evolutionary scales will serve as a road map for graduate students researchers and practitioners as they work toward a holistic understanding of life as a primate and the urgent conservation consequences of diet and food availability in a changing world      **Encyclopedia of Ecology** Brian D. Fath,2018-08-23

Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e g climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes      *The*

*Theory of Ecology* Samuel M. Scheiner,Michael R. Willig,2011-06-15 Despite claims to the contrary the science of ecology has a long history of building theories Many ecological theories are mathematical computational or statistical though and rarely have attempts been made to organize or extrapolate these models into broader theories The Theory of Ecology brings together some of the most respected and creative theoretical ecologists of this era to advance a comprehensive conceptual articulation of ecological theories The contributors cover a wide range of topics from ecological niche theory to population dynamic theory to island biogeography theory Collectively the chapters ably demonstrate how theory in ecology accounts for observations about the natural world and how models provide predictive understandings It organizes these models into constitutive domains that highlight the strengths and weaknesses of ecological understanding This book is a milestone in

ecological theory and is certain to motivate future empirical and theoretical work in one of the most exciting and active domains of the life sciences *Biomimicry for Optimization, Control, and Automation* Kevin M. Passino, 2005-09-08

Biomimicry uses our scientific understanding of biological systems to exploit ideas from nature in order to construct some technology. In this book we focus on how to use biomimicry of the functional operation of the hardware and software of biological systems for the development of optimization algorithms and feedback control systems that extend our capabilities to implement sophisticated levels of automation. The primary focus is not on the modeling, emulation, or analysis of some biological system. The focus is on using bioinspiration to inject new ideas, techniques, and perspective into the engineering of complex automation systems. There are many biological processes that at some level of abstraction can be represented as optimization processes, many of which have as a basic purpose automatic control, decision making, or automation. For instance, at the level of everyday experience we can view the actions of a human operator of some process, e.g., the driver of a car, as being a series of the best choices he or she makes in trying to achieve some goal, staying on the road. Emulation of this decision making process amounts to modeling a type of biological optimization and decision making process, and implementation of the resulting algorithm results in human mimicry for automation. There are clearer examples of biological optimization processes that are used for control and automation when you consider nonhuman biological or behavioral processes or the internal logic of the human and not the resulting external behavioral characteristics, like driving a car. For instance, there are homeostasis processes where, for instance, temperature is regulated in the human body.

**Encyclopedia of Animal Behavior**, 2009-04-01 The Encyclopedia of Animal Behavior Three Volume Set has engaged with great success the efforts of many of the best behavioral biologists of the 21st century. Section editors drawn from the most accomplished behavioral scientists of their generation have enrolled an international cast of highly respected thinkers and writers, all of whom have taken great care and joy in illuminating every imaginable corner of animal behavior. This comprehensive work covers not only the usual topics such as communication, learning, sexual selection, navigation, and the history of the field, but also emerging topics in cognition, animal welfare, conservation, and applications of animal behavior. The large section on animal cognition brings together many of the world's experts on the subject to provide a comprehensive overview of this rapidly developing area. Chapters relating to animal welfare give a full view of behavioral interactions of humans with companion animals, farm animals, and animals in the wild. The key role of animal behavior in conservation biology receives broad attention, including chapters on topics such as the effects of noise, pollution, captive breeding, and how the behavioral effects of parasites interact with conservation issues. Animal behavior in environmental biology is highlighted in chapters on the effects of endocrine disruptors on behavior, and a large number of chapters on key species such as wolves, chimpanzees, hyenas, and sharks. Clear, accessible writing complements a wealth of information for undergraduate college students about the essential concepts of animal behavior and the application of those concepts across the field. In depth

coverage of concepts methods and exemplar organisms serves the needs of graduate students and professionals in the field From the use of behavior in assessing the welfare of pigs to the social behavior of insects from animal empathy to bat brains this authoritative reference with its in depth introductory articles rich array of illustrations interactive cross referenced links and numerous suggested readings can guide the student or the professional to an expanded appreciation of the far flung world of animal behavior An invaluable tool for teaching and a source of enrichment and detail for any topic covered in an animal behavior course the Encyclopedia of Animal Behavior is the definitive reference work in its field and will be for years to come Comprehensive work which covers the usual topics along with emerging areas of animal behavior This encyclopedia contains clear accessible writing and is well illustrated including an online video complimenting a wealth of information As an online reference this work will be subject to period updating This ensures that the work always remains current Contains in depth introductions to the material that make each well illustrated section come alive with the best the new content the discipline has to offer Glossary includes a compendium of behavioral terms that form a succinct mosaic of virtually every concept and phenomenon related to animal behavior Section editors drawn from around the world represent the best and the brightest among today s behavioral biologists and have recruited a broad range of internationally recognized experts Editors in Chief are experienced scientists and writers who between them have authored or edited eight books and teach courses in animal behavior at their respective universities

**Trends in Interactive Visualization** Elena Zudilova-Seinstra,Tony Adriaansen,Robert van Liere,2008-12-17 II Challenges in Data Mapping Part II deals with one of the most challenging tasks in Interactive Visualization mapping and teasing out information from large complex datasets and generating visual representations This section consists of four chapters Binh Pham Alex Streit and Ross Brown provide a comprehensive requirement analysis of information uncertainty visualizations They examine the sources of uncertainty review aspects of its complexity introduce typical models of uncertainty and analyze major issues in visualization of uncertainty from various user and task perspectives Alfred Inselberg examines challenges in the multivariate data analysis He explains how relations among multiple variables can be mapped uniquely into space subsets having geometrical properties and introduces Parallel Coordinates meth ology for the unambiguous visualization and exploration of a multidimensional geometry and multivariate relations Christiaan Gribble describes two alternative approaches to interactive particle visualization one targeting desktop systems equipped with programmable graphics hardware and the other targeting moderately sized multicore systems using pack based ray tracing Finally Christof Rezk Salama reviews state of the art strategies for the assignment of visual parameters in scientific visualization systems He explains the process of mapping abstract data values into visual based on transfer functions clarifies the terms of pre and postclassification and introduces the state of the art user int faces for the design of transfer functions

Human Behavioral Ecology Jeremy Koster,Brooke Scelza,Mary K. Shenk,2024-03-14 Human behavioral ecology HBE applies the principles of evolutionary theory and optimisation to the study of human behavioural and



cultural diversity Among other things HBE attempts to explain variation in behaviour as adaptive solutions to the competing life history demands of growth development reproduction parental care and mate acquisition This book is a comprehensive introduction to the theoretical orientation and specific findings of HBE It consolidates the insights of evolution and human behaviour into a single volume that reflects the current state and future of the field It brings together leading scholars from across the evolutionary social sciences to provide a comprehensive and thought provoking review of the state of the topic Throughout the authors explain the latest developments in theory and highlight critical debates in the literature while also engaging readers with ethnographic insights and field based studies that remain at the core of human behavioral ecology

**Genetic and Cultural Evolution of Cooperation** Peter Hammerstein, 2003 Table of contents **Ornithology** Michael L. Morrison, Amanda D. Rodewald, Gary Voelker, Melanie R. Colón, Jonathan F. Prather, 2018-09-03 The essential text for ornithology courses this book will leave students with a lifelong understanding and appreciation of the biology and ecology of birds Aves the birds is the wildlife group that people most frequently encounter With over 10 000 species worldwide these animals are part of our everyday experience They are also the focus of intense research and their management and conservation is a subject of considerable effort throughout the world But what are the defining attributes that make a bird a bird Aimed at undergraduate and graduate students Ornithology provides a solid modern foundation for understanding the life and development of birds Written by renowned experts from around the globe this comprehensive textbook draws on the latest research to create an innovative learning experience Moving beyond bones muscle and feathers it provides the core information needed to build the bird linking anatomy and physiology with ecology and behavior As it reviews the major orders of birds the book highlights their wide diversity and critically evaluates ornithological concepts and theories Incorporating brief biographies of leaders in the field the text describes their contributions in the context of key historical events in bird science Each chapter ends with a summary of the material covered a discussion of potential management and conservation applications and suggested study questions that will stimulate thought and discussion Contributors Peter Arcese George E Bentley Lori A Blanc William M Block Alice Boyle Leonard A Brennan Luke K Butler Zac Cheviron Luis M Chiappe Melanie R Col n Caren B Cooper Robert J Cooper Jamie M Cornelius Carlos Martinez Del Rio John Dumbacher Shannon Farrell Maureen Flannery Geoffrey Geupel Patricia Adair Gowaty Thomas P Hahn Ashley M Heers Fritz Hertel Geoffrey E Hill Matthew Johnson Lukas F Keller Dylan C Kesler Pablo Sabat Kirkwood John Klicka Christopher A Lepczyk Ashley M Long Scott R Loss Graham R Martin John M Marzluff Susan B McRae Michael L Morrison Timothy J O Connell Jen C Owen Marco Pavia Jeffrey Podos Lars Pomara Jonathan F Prather Marco Restani Alejandro Rico Guevara Amanda D Rodewald Vanya G Rohwer Matthias Starck Michael W Strohbach S Ma eika P Sullivan Diego Sustaita Kerri T Vierling Gary Voelker Margaret A Voss Jeff R Walters Paige S Warren Elisabeth B Webb Michael S Webster Eric M Wood Robert M Zink Benjamin Zuckerberg **An Introduction to Theory in Anthropology** Robert Layton, 1997 In this innovative introduction

Robert Layton reviews the ideas that have inspired anthropologists in their studies of societies around the world. An Introduction to Theory in Anthropology provides a clear and concise analysis of the theories and traces the way in which they have been translated into anthropological debates. The opening chapter sets out the classical theoretical issues formulated by Hobbes, Rousseau, Marx, and Durkheim. Successive chapters discuss Functionalism, Structuralism, Interactionist theories, and Marxist anthropology, while the final chapters address the competing paradigms of Socioecology and Postmodernism. Using detailed case studies, Professor Layton illustrates the way in which various theoretical perspectives have shaped competing or complementary accounts of specific human societies.

*Culture Evolves* Andrew Whiten, 2012. Culture broadly defined as all we learn from others that endures for long enough to generate customs and traditions shapes vast swathes of our lives and has allowed the human species to dominate the planet in an evolutionarily unique way. Culture and cultural evolution are uniquely significant phenomena in evolutionary biology; they are products of biological evolution yet they supplement genetic transmission with social transmission, thus achieving a certain independence from natural selection. However, cultural evolution nevertheless expresses key Darwinian processes itself and also interacts with genetic evolution. Just how culture fits into the grander framework of evolution is a big issue, though yet one that has received relatively little scientific attention compared to, for example, genetic evolution. Our capacity for culture appears so distinctive among animals that it is often thought to separate we cultural beings from the rest of nature and the Darwinian forces that shape it.

*Culture Evolves* presents a different view arising from the recent discoveries of a diverse range of disciplines that focus on evolutionary continuities. First, recent studies reveal that learning from others and the transmission of traditions are more widespread and significant across the animal kingdom than earlier recognized, helping us understand the evolutionary roots of culture. Second, archaeological discoveries have pushed back the origins of human culture to much more ancient times than traditionally thought. These developments together suggest important continuities between animal and human culture. A third, new array of discoveries concerns the later diversification of human cultures, where the operations of Darwinian-like cultural evolutionary processes are increasingly identified. Finally, surprising discoveries have been made about the imprint of cultural evolution in children's predisposition to acquire culture. The result of a major interdisciplinary meeting held by the Royal Society and the British Academy, this book presents the work of leading experts from the fields of ethology, behavioural ecology, primatology, comparative psychology, archaeology, anthropology, evolutionary biology, and developmental psychology.

**Game Theory in Biology** John M. McNamara, Olof Leimar, 2020-09-24. The principles of game theory apply to a wide range of topics in biology. This book presents the central concepts in evolutionary game theory and provides an authoritative and up-to-date account. The focus is on concepts that are important for biologists in their attempts to explain observations. This strong connection between concepts and applications is a recurrent theme throughout the book, which incorporates recent and traditional ideas from animal psychology, neuroscience, and machine learning that provide a mechanistic basis for behaviours shown by players.

of a game The approaches taken to modelling games often rest on idealized and unrealistic assumptions whose limitations and consequences are not always appreciated The authors provide a novel reassessment of the field highlighting how to overcome limitations and identifying future directions Game Theory in Biology is an advanced textbook suitable for graduate level students as well as professional researchers both empiricists and theoreticians in the fields of behavioural ecology and evolutionary biology It will also be of relevance to a broader interdisciplinary audience including psychologists and neuroscientists

Learning and Memory: A Comprehensive Reference ,2017-07-07 Learning and Memory A Comprehensive Reference Second Edition Four Volume Set is the authoritative resource for scientists and students interested in all facets of learning and memory This updated edition includes chapters that reflect the state of the art of research in this area Coverage of sleep and memory has been significantly expanded while neuromodulators in memory processing neurogenesis and epigenetics are also covered in greater detail New chapters have been included to reflect the massive increase in research into working memory and the educational relevance of memory research No other reference work covers so wide a territory and in so much depth Provides the most comprehensive and authoritative resource available on the study of learning and memory and its mechanisms Incorporates the expertise of over 150 outstanding investigators in the field providing a one stop resource of reputable information from world leading scholars with easy cross referencing of related articles to promote understanding and further research Includes further reading for each chapter that helps readers continue their research Includes a glossary of key terms that is helpful for users who are unfamiliar with neuroscience terminology

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