

Neuroethological Studies of Cognitive and Perceptual Processes



edited by
Cynthia F. Moss and Sara J. Shettleworth

Neuroethological Studies Of Cognitive And Perceptual Processes

Joel Fagot



Neuroethological Studies Of Cognitive And Perceptual Processes:

Neuroethological Studies Of Cognitive And Perceptual Processes Cynthia Moss, Sara J Shettleworth, 2018-02-12

How do bats catch insects in the dark How do bees learn which flowers to visit How do food storing birds remember where their hoards are Questions like these are addressed by neuroethology the branch of behavioral neuroscience concerned with analyzing the neural bases of naturally occurring behaviors This book brings together thirteen chapters presenting findings on perceptual and cognitive processes in some of the most active areas of neuroethological research including auditory localization by bats and owls song perception and learning in birds pitch processing by frogs and toads imprinting in birds spatial memory in birds learning in bees and in Aplysia and electroreception in fish A variety of approaches are represented such as field studies psychophysical tests electrophysiological experiments lesion studies comparative neuroanatomy and studies of development Each chapter gives an up to date overview of a particular author s research and places it within the broader context of issues about animal perception and cognition The book as a whole exemplifies how studying species and their particular specializations can inform general issues in psychology ethology and neuro science

Neuroethological Studies Of Cognitive And Perceptual Processes Cynthia Moss, 1996-02-23 How do bats catch insects in the dark How do bees learn which flowers to visit How do food storing birds remember where their hoards are Questions like these are addressed by neuroethology the branch of behavioral neuroscience concerned with analyzing the neural bases of naturally occurring behaviors This book brings together thirteen chapters presenting findings on perceptual and cognitive processes in some of the most active areas of neuroethological research including auditory localization by bats and owls song perception and learning in birds pitch processing by frogs and toads imprinting in birds spatial memory in birds learning in bees and in Aplysia and electroreception in fish A variety of approaches are represented such as field studies psychophysical tests electrophysiological experiments lesion studies comparative neuroanatomy and studies of development Each chapter gives an up to date overview of a particular author s research and places it within the broader context of issues about animal perception and cognition The book as a whole exemplifies how studying species and their particular specializations can inform general issues in psychology ethology and neuroscience

Cognition, Evolution, and Behavior Sara J.

Shettleworth, 2010-04-10 How do animals perceive the world learn remember search for food or mates communicate and find their way around Do any nonhuman animals count imitate one another use a language or have a culture What are the uses of cognition in nature and how might it have evolved What is the current status of Darwin s claim that other species share the same mental powers as humans but to different degrees In this completely revised second edition of Cognition Evolution and Behavior Sara Shettleworth addresses these questions among others by integrating findings from psychology behavioral ecology and ethology in a unique and wide ranging synthesis of theory and research on animal cognition in the broadest sense from species specific adaptations of vision in fish and associative learning in rats to discussions of theory of mind in

chimpanzees dogs and ravens She reviews the latest research on topics such as episodic memory metacognition and cooperation and other regarding behavior in animals as well as recent theories about what makes human cognition unique In every part of this new edition Shettleworth incorporates findings and theoretical approaches that have emerged since the first edition was published in 1998 The chapters are now organized into three sections Fundamental Mechanisms perception learning categorization memory Physical Cognition space time number physical causation and Social Cognition social knowledge social learning communication Shettleworth has also added new chapters on evolution and the brain and on numerical cognition and a new chapter on physical causation that integrates theories of instrumental behavior with discussions of foraging planning and tool using

The Alex Studies Irene Maxine Pepperberg,2002-04-30 Twenty years ago Pepperberg set out to discover whether large brained highly social parrots were capable of mastering complex cognitive concepts and the rudiments of referential speech This book represents the long awaited synthesis of the studies constituting one of the landmark experiments in modern comparative psychology

Moss, Cynthia ... (Ed.): Neuroethological Studies of Cognitive and Perceptual Processes [Rezension] Juan Delius,1997 Animal Cognition in Nature Russell P. Balda,Irene M. Pepperberg,A. C. Kamil,1998-09-09 In this book the editors bring together results from studies on all kinds of animals to show how thinking on many behaviors as truly cognitive processes can help us to understand the biology involved Taking ideas and observations from the whole range of research into animal behavior leads to unexpected and stimulating ideas A space is created where the work of field ecologists evolutionary ecologists and experimental psychologists can interact and contribute to a greater understanding of complex animal behavior and to the development of a new and coherent field of study

Handbook of Psychology, Biological Psychology Michela Gallagher,Randy J. Nelson,2003-03-11 Includes established theories and cutting edge developments Presents the work of an international group of experts Presents the nature origin implications an future course of major unresolved issues in the area

Neurobiology of Chemical Communication Carla Mucignat-Caretta,2014-02-14 Intraspecific communication involves the activation of chemoreceptors and subsequent activation of different central areas that coordinate the responses of the entire organism ranging from behavioral modification to modulation of hormones release Animals emit intraspecific chemical signals often referred to as pheromones to advertise their presence to members of the same species and to regulate interactions aimed at establishing and regulating social and reproductive bonds In the last two decades scientists have developed a greater understanding of the neural processing of these chemical signals Neurobiology of Chemical Communication explores the role of the chemical senses in mediating intraspecific communication Providing an up to date outline of the most recent advances in the field it presents data from laboratory and wild species ranging from invertebrates to vertebrates from insects to humans The book examines the structure anatomy electrophysiology and molecular biology of pheromones It discusses how chemical signals work on different mammalian and non mammalian species and includes chapters on insects Drosophila honey bees

amphibians mice tigers and cattle It also explores the controversial topic of human pheromones An essential reference for students and researchers in the field of pheromones this is also an ideal resource for those working on behavioral phenotyping of animal models and persons interested in the biology ecology of wild and domestic species **Picture**

Perception in Animals Joel Fagot,2013-06-17 Animal researchers commonly present pictures to their subjects usually birds or monkeys in order to infer how natural objects are perceived and conceptualised or to discover the brain mechanisms underlying these abilities This unique book questions the premise of this experimental approach and asks whether or not pictures can be considered as ecologically valid and realistic stimuli for animals Leading researchers in comparative psychology and neuroscience address such questions as Can animals recognise objects of scenes in pictures despite variations in viewpoints How do animals perceive faces and Is there an equivalence in animals minds between pictures and the objects they represent The result is an authoritative and cutting edge survey of current knowledge in the field which underlines the advantages limits and risks of using pictures to infer cognitive abilities or brain mechanisms in animal studies *Picture Perception in Animals* will be essential reading for comparative psychologists anthropologists and neuroscientists working in picture perception **Electricity Transmission Pricing and Technology** A.F. Kalverboer,A.

Gramsbergen,2001-11-30 The electric utility industry and its stakeholders in the United States appear to be at a critical juncture in time Powerful forces of global proportions are propelling the industry instinctively and in a secular fashion towards restructuring That the industry will change is a fait accompli The nature and timing of the change is still a matter of intense debate however Because of the evolution of the industry into its present day form i e regulated local monopolies in their designated franchise service territories the relative roles and expectations of various institutions would have to change to conform to the new state in the future In either encouraging or allowing this change to happen society is essentially saying that future societal welfare would be better served by the changed structure contemplated What that assumption translates into in more direct terms is that creation of future wealth would be better accomplished through redistribution of wealth today Thoughtful individuals recognize the enormous responsibility placed upon the various entities empowered with jurisdiction over the timing and nature of the structural change They are trying hard to bring analytical rigor to bear on the debate One very critical element of this debate on restructuring is the issue of the treatment of transmission The issue has been variously labeled transmission access or pricing Volumes have been written and spoken on this topic *Encyclopedia of Ecology* Brian D. Fath,2014-11-03 The groundbreaking *Encyclopedia of Ecology* provides an authoritative and comprehensive coverage of the complete field of ecology from general to applied It includes over 500 detailed entries structured to provide the user with complete coverage of the core knowledge accessed as intuitively as possible and heavily cross referenced Written by an international team of leading experts this revolutionary encyclopedia will serve as a one stop shop to concise stand alone articles to be used as a point of entry for undergraduate students or as a tool for active

researchers looking for the latest information in the field Entries cover a range of topics including Behavioral Ecology Ecological Processes Ecological Modeling Ecological Engineering Ecological Indicators Ecological Informatics Ecosystems Ecotoxicology Evolutionary Ecology General Ecology Global Ecology Human Ecology System Ecology The first reference work to cover all aspects of ecology from basic to applied Over 500 concise stand alone articles are written by prominent leaders in the field Article text is supported by full color photos drawings tables and other visual material Fully indexed and cross referenced with detailed references for further study Writing level is suited to both the expert and non expert Available electronically on ScienceDirect shortly upon publication *Multisensory Development* Andrew J. Bremner,David J.

Lewkowicz,Charles Spence,2012-06-21 We perceive and understand our environment using many sensory systems vision touch hearing taste smell and proprioception These multiple sensory modalities give us complementary sources of information about the environment This book explores how we develop the ability to integrate our senses **An**

Introduction to Animal Behaviour Aubrey Manning,Marian Stamp Dawkins,2012-03-26 A beautifully written introduction to the fundamentals of animal behaviour this revised and updated edition is now in full colour **Handbook of Psychology:**

Biological psychology Irving B. Weiner,Donald K. Freedheim,2003 Includes established theories and cutting edge developments Presents the work of an international group of experts Presents the nature origin implications an future course of major unresolved issues in the area **The Study of Behavior** Jerry A. Hogan,2017-11-02 This book provides a unique framework for understanding diverse issues across behavior studies facilitating collaboration between sub disciplines

Beyond the Brain Benoit Hardy-Vallée,2009-03-26 Cognitive science faces a major methodological and conceptual change since the 90 s Whereas the brain was traditionally conceived as being the only seat of intelligence many researches emphasize the entrenchment of the brain in body context and culture In 2006 a conference was held at the Universit du Qu bec Montr al UQAM and allowed researchers from various fields to interact and discuss such issues Cognitio 2006 was an occasion for philosophers cognitive scientists and biologists to present the latest developments in their discipline and this book aims at providing a general overview of current research on embodied situated and distributed cognition

Behavioural Ecotoxicology Giacomo Dell'Omo,2002-05-22 Behavioural ecotoxicology is an emerging field dealing with the effects of environmental pollutants on the behaviour of animals Behavioural techniques derived from experimental psychology behavioural pharmacology and neurotoxicology are applied to detect and characterise changes in animals living in the environment exposed to various pollutants Behavioural effects are then interpreted in an ecological context considering the long term relevance of these changes at both the individual and population level **Auditory Computation**

Harold L. Hawkins,Teresa A. McMullen,Richard R. Fay,2012-12-06 The auditory system presents many features of a complex computational environment as well as providing numerous opportunities for computational analysis This volume represents an overview of computational approaches to understanding auditory system function The chapters share the common

perspective that complex information processing must be understood at multiple levels that disciplines such as neurobiology psychophysics and computer science make vital contributions and that the end product of computational analysis should be the development of formal models

Learning and Behavior James E. Mazur, 2015-07-17 This book reviews how people and animals learn and how their behaviors are later changed as a result of this learning Nearly all of our behaviors are influenced by prior learning experiences in some way This book describes some of the most important principles theories controversies and experiments that pertain to learning and behavior that are applicable to many different species and many different learning situations Many real world examples and analogies make the concepts and theories more concrete and relevant to the students In addition most of the chapters include sections that describe how the theories and principles have been used in the applied field of behavior modification Each chapter in the seventh edition was updated with new studies and new references that reflect recent developments in the field The book includes a number of learning aids for students including a list of learning objectives at the beginning of each chapter practices quizzes and review questions and a glossary for all important terms Learning Behavior covers topics such as classical and operant conditioning reinforcement schedules avoidance and punishment stimulus control comparative cognition observational learning motor skill learning and choice Both the classic studies and the most recent developments and trends in the field are explored Although the behavioral approach is emphasized many cognitive theories are covered as well along with a chapter on comparative cognition Upon completing this book readers will be able to understand the field of learning and discuss real world applications of learning principles

Echolocation in Bats and Dolphins Jeanette A. Thomas, Cynthia F. Moss, Marianne Vater, 2004 Although bats and dolphins live in very different environments are vastly different in size and hunt different kinds of prey both groups have evolved similar sonar systems known as echolocation to locate food and navigate the skies and seas While much research has been conducted over the past thirty years on echolocation in bats and dolphins this volume is the first to compare what is known about echolocation in each group to point out what information is missing and to identify future areas of research Echolocation in Bats and Dolphins consists of six sections mechanisms of echolocation signal production the anatomy and physiology of signal reception and interpretation performance and cognition ecological and evolutionary aspects of echolocation mammals theoretical and methodological topics and possible echolocation capabilities in other mammals including shrews seals and baleen whales Animal behaviorists ecologists physiologists and both scientists and engineers who work in the field of bioacoustics will benefit from this book

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