

Gerhard von der Emde  
Eric Warrant *Editors*

# The Ecology of Animal Senses

Matched Filters for Economical Sensing

 Springer

# Ecology Animal Senses Matched Economical

**Christine Kenyon-Jones**



## **Ecology Animal Senses Matched Economical:**

**The Ecology of Animal Senses** Gerhard von der Emde, Eric Warrant, 2015-12-16 The collection of chapters in this book present the concept of matched filters response characteristics matching the characteristics of crucially important sensory inputs which allows detection of vital sensory stimuli while sensory inputs not necessary for the survival of the animal tend to be filtered out or sacrificed The individual contributions discuss that the evolution of sensing systems resulted from the necessity to achieve the most efficient sensing of vital information at the lowest possible energetic cost Matched filters are found in all senses including vision hearing olfaction mechanoreception electroreception and infrared sensing and different cases will be referred to in detail *Effects of Anthropogenic Noise on Animals* Hans Slabbekoorn, Robert J. Dooling, Arthur N. Popper, Richard R. Fay, 2018-08-20 Over the past several years many investigators interested in the effects of man made sounds on animals have come to realize that there is much to gain from studying the broader literature on hearing sound and the effects of sound as well as data from the effects on humans It has also become clear that knowledge of the effects of sound on one group of animals e g birds or frogs can guide studies on other groups e g marine mammals or fishes and that a review of all such studies together would be very useful to get a better understanding of the general principles and underlying cochlear and cognitive mechanisms that explain damage disturbance and deterrence across taxa The purpose of this volume then is to provide a comprehensive review of the effects of man made sounds on animals with the goal of fulfilling two major needs First it was thought to be important to bring together data on sound and bioacoustics that have implications across all taxa including humans so that such information is generally available to the community of scholars interested in the effects of sound This is done in Chaps 2 5 Second in Chaps 6 10 the volume brings together what is known about the effects of sound on diverse vertebrate taxa so that investigators with interests in specific groups can learn from the data and experimental approaches from other species Put another way having an overview of the similarities and discrepancies among various animal groups and insight into the how and why will benefit the overall conceptual understanding applications in society and all future research *The Senses: A Comprehensive Reference*, 2020-09-30 The Senses A Comprehensive Reference Second Edition Seven Volume Set is a comprehensive reference work covering the range of topics that constitute current knowledge of the neural mechanisms underlying the different senses This important work provides the most up to date cutting edge comprehensive reference combining volumes on all major sensory modalities in one set Offering 264 chapters from a distinguished team of international experts The Senses lays out current knowledge on the anatomy physiology and molecular biology of sensory organs in a collection of comprehensive chapters spanning 4 volumes Topics covered include the perception psychophysics and higher order processing of sensory information as well as disorders and new diagnostic and treatment methods Written for a wide audience this reference work provides students scholars medical doctors as well as anyone interested in neuroscience a comprehensive overview of the knowledge accumulated on the

function of sense organs sensory systems and how the brain processes sensory input As with the first edition contributions from leading scholars from around the world will ensure The Senses offers a truly international portrait of sensory physiology The set is the definitive reference on sensory neuroscience and provides the ultimate entry point into the review and original literature in Sensory Neuroscience enabling students and scientists to delve into the subject and deepen their knowledge All inclusive coverage of topics updated edition offers readers the only current reference available covering neurobiology physiology anatomy and molecular biology of sense organs and the processing of sensory information in the brain Authoritative content world leading contributors provide readers with a reputable dynamic and authoritative account of the topics under discussion Comprehensive style content in depth complex coverage of topics offers students at upper undergraduate level and above full insight into topics under discussion

**Scholarpedia of Touch** Tony Prescott,Ehud Ahissar,Eugene Izhikevich,2015-11-21 Scholarpedia s Encyclopedia of Touch provides a comprehensive collection of peer reviewed articles written by leading researchers detailing our current scientific understanding of tactile sensing and its neural substrates in animals including humans The encyclopedia allows ideas and insights to be shared between researchers working on different aspects of touch and in different species including research in synthetic touch systems In addition this encyclopedia raises awareness of research in tactile sensing and increases scientific and public interest in the field The articles address subjects including tactile control whiskered robots vibrissal coding the molecular basis of touch invertebrate mechanoreception fingertip transducers and tactile sensing All the articles in this encyclopedia provide in depth and state of the art scholarly treatment of the academic topics concerned making it an excellent reference work for academics professionals and students

**Olfactory Concepts of Insect Control - Alternative to insecticides** Jean-François Picimbon,2019-05-16 Evolution gave rise to a prominent insect diversity at every level of ecological niche Since then hordes of insects have threatened human and cattle health as well as most of all green lands and agricultural crops Now the insect problem expands from many mutant forms of yellow dengue fever mosquitoes to highly resistant larvae of most all various phytophagous species The tremendous expansion of insects is due not only to an increasing resistance capacity to insecticides but also to a strong capacity for adapting to different climate and environmental changes including global warming Obviously insects display a number of rudimentary systems to build an extremely efficient organism to survive in a changing world In many species one pheromone molecule is enough to trigger mating behavior Therefore insects have become crucial models not only for evolutionary studies but also for understanding specific mechanisms underlying sensory based behaviors Most of insect species such as ants beetles cockroaches locusts moths and mosquitoes largely rely on olfactory cues to explore the environment and find conspecifics or food sources A conglomerate of renowned international scientific experts is gathered to expose the insect problem on the various continents of the planet and propose an alternative to the use of toxic insecticides Sex pheromones specific chemical signals necessary for reproduction and pheromone

detection in insects are described with full details of the olfactory mechanisms in the antennae and higher centers in the brain Thus new synthetic pheromones and or plant odors with specific molecular target sites in the insect olfactory system are proposed for sustainable development in agricultural and entomological industries Disrupting insect pheromone channels and plant odor detection mechanisms is solemnly envisioned as a unique way to control invasive insect pest species while preserving human and environment safety

**Architected Materials in Nature and Engineering** Yuri Estrin,Yves Bréchet,John Dunlop,Peter Fratzl,2019-03-27 This book deals with a group of architected materials These are hybrid materials in which the constituents even strongly dissimilar ones are combined in a given topology and geometry to provide otherwise conflicting properties The hybridization presented in the book occurs at various levels from the molecular to the macroscopic say sub centimeter ones This monograph represents a collection of programmatic chapters defining archimats and summarizing the results obtained by using the geometry inspired materials design The area of architected or geometry inspired materials has reached a certain level of maturity and visibility for a comprehensive presentation in book form It is written by a group of authors who are active researchers working on various aspects of architected materials Through its 14 chapters the book provides definitions and descriptions of the archetypes of architected materials and addresses the various techniques in which they can be designed optimized and manufactured It covers a broad realm of archimats from the ones occurring in nature to those that have been engineered and discusses a range of their possible applications The book provides inspiring and scientifically profound yet entertaining reading for the materials science community and beyond

**Vertebrate Sound Production and Acoustic Communication** Roderick A. Suthers,W. Tecumseh Fitch,Richard R. Fay,Arthur N. Popper,2016-04-27 Although the fundamental principles of vocal production are well understood and are being increasingly applied by specialists to specific animal taxa they stem originally from engineering research on the human voice These origins create a double barrier to entry for biologists interested in understanding acoustic communication in their study species The proposed volume aims to fill this gap providing easy to understand overviews of the various relevant theories and techniques and showing how these principles can be implemented in the study of all main vertebrate groups The volume will have eleven chapters assembled from the world s leading researchers at a level intelligible to a wide audience of biologists with no background in engineering or human voice science Some will cover sound production in a particular vertebrate group others will address a particular issue such as vocal learning across vertebrate taxa The book will highlight what is known and how to implement useful techniques and methodologies but will also summarize current gaps in the knowledge It will serve both as a tutorial introduction for newcomers and a springboard for further research for all scientists interested in understanding animal acoustic signals

**Calatonia e Toques Sutis: Enfoque Neurocientífico** Anita Ribeiro Blanchard,2022-02-02 A integra o da psicoterapia e de t cnicas som ticas considerada imprescind vel por suas amplas aplica es no tratamento do trauma e nos transtornos de p nico ansiedade e depress o cujas conex es neurobiol gicas n o podem mais

ser negligenciadas ou ignoradas pela psicologia cl nica Acredita-se que nas pr ximas d cadas ser o desenvolvidos tratamentos terap uticos mais eficazes que incluam o componente som tico com base na ci ncia das redes neurais redimensionando assim o excessivo valor da atual vis o sintomatol gica e comportamental dos transtornos mentais Nesse sentido o m todo da Calatonia j inclui o componente som tico em sintonia com a conectividade neural h mais de 60 anos apresentando resultados not veis com d cadas de valida o cl nica Pioneiro not vel ao criar a Calatonia o professor S ndor utilizou os conceitos atualmente definidos como sincroniza o interpessoal corregula o terapeuta paciente reflexo de orienta o e divaga o mental favorecida pela rede de modo padr o de forma integrada aos componentes afetivos e cognitivos ativados pelos diversos receptores t teis Anita Ribeiro Blanchard traz novas contribui es para a compreens o e fundamenta o dessas t cnicas som ticas aliadas psicologia cl nica e psicoterapia S o apresentadas as hip teses te ricas sobre os correlatos neurais da Calatonia de acordo com os estudos mais recentes das neuroci ncias a fim de promover futuras pesquisas e uma pr tica terap utica s lida nas reas da psicologia psicoterapia sa de educa o medicina comportamental e terapias som ticas **Kindred Brutes:**

**Animals in Romantic-Period Writing** Christine Kenyon-Jones, 2017-03-02 Exploring the significance of animals in Romantic period writing this new study shows how in this period they were seen as both newly different from humankind subjects in their own right rather than simply humanity s tools or adjuncts and also as newly similar with the ability to feel and perhaps to think like human beings Approaches to animals are reviewed in a wide range of the period s literary work in particular that of Byron Wordsworth Coleridge Keats Southey Clare and Blake Poetry and other literary work are discussed in relation to discourses about animals in various contemporary cultural contexts including children s books parliamentary debates vegetarian theses encyclopaedias and early theories about evolution The study introduces animals to the discussions about ecocriticism and environmentalism in Romantic period writing by complicating the concept of Nature and it also contributes to the debates about politics and the body in this period It demonstrates the rich variety of thinking about animals in the late eighteenth and early nineteenth centuries and it challenges the exclusion of literary writing from some recent multi disciplinary debates about animals by exploring the literary roots of many metaphors about and attitudes to animals in our current thinking Kindred Brutes constitutes a genuinely original and substantial contribution both to Romantic period writing and to general debates about animals and the body Environment and Ecology in the Long

Nineteenth-Century Mark Frost, 2022-06-22 This first volume includes scientific sources that were foundational in the professionalization of science and in the development and dissemination of scientific thinking as it moved towards evolutionary thought including emerging ideas in biology botany zoology anatomy natural theology and geology The volume is comprised of specialist and popular science and because science was becoming increasingly internationalised particularly significant and influential overseas sources have been included The volume includes extracts from works by Rev Gilbert White Baron Cuvier William Paley Jean Baptiste Lamarck Rev William Buckland Charles Waterton Charles Lyell Richard

Owen Louis Agassiz Roderick Murchison Alexander von Humboldt Henry Sedgwick Hugh Miller Patrick Mathew Robert Chambers John Ruskin and Philip Gosse      **Reptile Ecology and Conservation** C. Kenneth Dodd Jr., 2016-05-05 This practical handbook of reptile field ecology and conservation brings together a distinguished international group of reptile researchers to provide a state of the art review of the many new and exciting techniques used to study reptiles The authors describe ecological sampling techniques and how they are implemented to monitor the conservation status and population trends of snakes lizards tuatara turtles and crocodilians throughout the world Emphasis is placed on the extent of statistical inference and the biases associated with different techniques and analyses The chapters focus on the application of field research and data analysis for achieving an understanding of reptile life history population dynamics movement patterns thermal ecology conservation status and the relationship between reptiles and their environment The book emphasises the need for thorough planning and demonstrates how a multi dimensional approach incorporates information related to morphology genetics molecular biology epidemiology statistical modelling animal welfare and biosecurity Although accentuating field sampling sections on experimental applications in laboratories and zoos thermal ecology genetics landscape ecology disease and biosecurity and management options are included Much of this information is scattered in the scientific literature or not readily available and the intention is to provide an affordable comprehensive synthesis for use by graduate students researchers and practising conservationists worldwide      **Time Resources, Society and Ecology** Tommy

Carlstein, 2019-09-18 Originally published in 1982 Time Resources Society and Ecology examines and seeks to examine the time dimension in terms of the ecology technology social organization and spatial structure of the human habitat Approaches to time resources sociological time budget studies anthropological activity analysis and economic analysis of money allocation have been limited by their sectoral scope or their failure to relate effectively to the processes of social interaction technological change and environmental structure In this book the book s articulation of time resources is developed in a general theoretical framework of action and interaction in time and space The book examines constraints and possibilities facing preindustrial societies and throws light on the impact of technology on modern societies Basic models of time allocation are presented and finally a cross cultural comparison is made of the mobilization of time resources in preindustrial societies Geographers social anthropologists and human ecologists should find this work directly relevant to their interest in understanding the interactions between man and environment      **Human Evolution beyond Biology and Culture** Jeroen

C. J. M. van den Bergh, 2018-10-18 Both natural and cultural selection played an important role in shaping human evolution Since cultural change can itself be regarded as evolutionary a process of gene culture coevolution is operative The study of human evolution in past present and future is therefore not restricted to biology An inclusive comprehension of human evolution relies on integrating insights about cultural economic and technological evolution with relevant elements of evolutionary biology In addition proximate causes and effects of cultures need to be added to the picture issues which are at

the forefront of social sciences like anthropology economics geography and innovation studies This book highlights discussions on the many topics to which such generalised evolutionary thought has been applied the arts the brain climate change cooking criminality environmental problems futurism gender issues group processes humour industrial dynamics institutions languages medicine music psychology public policy religion sex sociality and sports Holistic Anthropology David Parkin, Stanley Ulijaszek, 2011 Given the broad reach of anthropology as the science of humankind there are times when the subject fragments into specialisms and times when there is rapprochement Rather than just seeing them as reactions to each other it is perhaps better to say that both tendencies co exist and that it is very much a matter of perspective as to which is dominant at any moment The perspective adopted by the contributors to this volume is that some anthropologists have over the last decade or so been paying considerable attention to developments in the study of social and biological evolution and of material culture and that this has brought social material cultural and biological anthropologists closer to each other and closer to allied disciplines such as archaeology and psychology A more eclectic anthropology once characteristic of an earlier age is thus re emerging The new holism does not result from the merging of sharply distinguished disciplines but from among anthropologists themselves who see social organization as fundamentally a problem of human ecology and from that of material and mental creativity human biology and the co evolution of society and culture It is part of a wider interest beyond anthropology in the origins and rationale of human activities claims and beliefs and draws on inferential or speculative reasoning as well as hard evidence The book argues that while usefully borrowing from other subjects all such reasoning must be grounded in prolonged intensive and linguistically informed fieldwork and comparison

Bulletin of the Atomic Scientists ,1971-09 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world Deep Ecology Michael Tobias, 1985 **The Revelation of Nature** Paul Matthews, 2017-07-05 This title was first published in 2001 The Revelation of Nature embraces pragmatism aesthetics and metaphysics in an effort to narrate a fundamental relationship between the contemporary world and the natural source and site for any world of meaning Beginning with an exploration of Heidegger's seminal insight into the way we exist that human existence must be understood in its everydayness Matthews links these ideas to Heidegger's interpretation of the development of Western history in terms of its grounding metaphysical determinations to do with truth reality and the nature of things Matthews concludes that our everyday lives are informed and shaped by intellectual precepts and normative modes of behaviour that promote the combination and enslavement of both nature and ourselves within a mass technological grid This book breaks new ground in theology without underpinning the analysis with a particular religious viewpoint **The Rotarian** ,1987-12 Established in 1911 The Rotarian is the official magazine of Rotary International and is circulated worldwide Each issue contains feature articles columns and departments about or of interest



to Rotarians Seventeen Nobel Prize winners and 19 Pulitzer Prize winners from Mahatma Ghandi to Kurt Vonnegut Jr have written for the magazine **The Concept of Nature in Early Modern English Literature** Peter Remien,2019-02-14

Participates in an intellectual history of ecology while prompting a re evaluation of nature in the early modern period

Advances in Civil, Architectural, Structural and Constructional Engineering Dong-Keon Kim,Jongwon Jung,Junwon Seo,2016-04-05 The ICCASCE 2015 conference covers a wide range of fields in science and engineering innovation and aims to bring together engineering technology expertise Scientists scholars engineers and students from universities research institutes and industries all around the world gathered to present on going research activities This proceedings volume

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