

Acoustic Communication in Insects and Anurans

Common Problems and Diverse Solutions



H. Carl Gerhardt
and Franz Huber

Acoustic Communication In Insects And Anurans

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Acoustic Communication In Insects And Anurans:

Acoustic Communication in Insects and Anurans H. Carl Gerhardt, Franz Huber, 2002-07-15 Walk near woods or water on any spring or summer night and you will hear a bewildering and sometimes deafening chorus of frog toad and insect calls How are these calls produced What messages are encoded within the sounds and how do their intended recipients receive and decode these signals How does acoustic communication affect and reflect behavioral and evolutionary factors such as sexual selection and predator avoidance H Carl Gerhardt and Franz Huber address these questions among many others drawing on research from bioacoustics behavior neurobiology and evolutionary biology to present the first integrated approach to the study of acoustic communication in insects and anurans They highlight both the common solutions that these very different groups have evolved to shared challenges such as small size ectothermy cold bloodedness and noisy environments as well as the divergences that reflect the many differences in evolutionary history between the groups Throughout the book Gerhardt and Huber also provide helpful suggestions for future research

Acoustic Communication in Insects and Anurans H. Carl Gerhardt, Franz Huber, 2002-07-15 Walk near woods or water on any spring or summer night and you will hear a bewildering and sometimes deafening chorus of frog toad and insect calls How are these calls produced What messages are encoded within the sounds and how do their intended recipients receive and decode these signals How does acoustic communication affect and reflect behavioral and evolutionary factors such as sexual selection and predator avoidance H Carl Gerhardt and Franz Huber address these questions among many others drawing on research from bioacoustics behavior neurobiology and evolutionary biology to present the first integrated approach to the study of acoustic communication in insects and anurans They highlight both the common solutions that these very different groups have evolved to shared challenges such as small size ectothermy cold bloodedness and noisy environments as well as the divergences that reflect the many differences in evolutionary history between the groups Throughout the book Gerhardt and Huber also provide helpful suggestions for future research

Encyclopedia of Entomology John L. Capinera, 2008-08-11 This text brings together fundamental information on insect taxa morphology ecology behavior physiology and genetics Close relatives of insects such as spiders and mites are included

Hearing and Sound Communication in Amphibians Peter M. Narins, Albert S. Feng, Richard R. Fay, 2006-12-11 As models for vertebrate auditory systems amphibians have been the source of extensive ground breaking research on hearing the nervous system and acoustic communication This comprehensive review covers key issues in amphibian hearing and communication in depth Topics are relevant to auditory research neuroethology herpetology animal behavior and bioacoustics

Handbook of Vibroacoustics, Noise and Harshness Naveen Garg, Chitra Gautam, Shanay Rab, Meher Wan, Ravinder Agarwal, Sanjay Yadav, 2024-12-17 The handbook covers the topics of vibro acoustics noise harshness and their related applications in detail Various topics covered in this handbook are acoustics and vibration metrology environmental noise measurements building acoustics acoustical meta

materials underwater acoustics soundscape approach beam forming approach 3D noise mapping in situ acoustical testing etc The handbook would provide a single window source of up to date information to the researchers acousticians noise and vibration control engineers metrologists industry university graduates masters academicians administrators policymakers regulators and other stakeholders for a better understanding of vibro acoustics noise harshness and related applications

Methods in Insect Sensory Neuroscience Thomas A. Christensen, 2004-12-20 Insects are among the most diverse and adaptable organisms on Earth They have long been our chief competitors for food and are responsible for spreading devastating afflictions such as malaria and encephalitis The insects ability to thrive is due in large part to their well developed sensory systems which present a host of novel physiological

Exploring Animal Behavior Through Sound: Volume 2 Christine Erbe, Jeanette A. Thomas, 2025-07-03 This open access book offers a profound exploration of the acoustic world of animals Organized into nine chapters by taxonomy invertebrates insects amphibians reptiles fishes birds and mammals subterranean terrestrial and marine it delves into sound production sound reception sound function and the impacts of noise on these creatures As the second volume of Exploring Animal Behavior Through Sound it builds upon the bioacoustic concepts and methodologies established in the first volume By attuning ourselves to the sounds of nature we can gain valuable insights into animal behavior distribution and demographics as well as their habitat characteristics and needs and the effects of noise on their behavior This book will serve as a valuable resource for students and researchers in animal ecology seeking to incorporate acoustics into their research toolkit as well as for environmental managers in industry and government

Death-Feigning in Insects Masaki Sakai, 2021-03-30 This book examines the mechanisms and functions of tonic immobility the so called death feigning behavior or thanatosis or animal hypnosis The chapters cover the neurophysiological and experimental studies on insects the functional significance of death feigning examination of the freezing and immobility behavior in insects through environment physiology genetics and responses to ultrasound and vibration It also covers tonic immobility and freezing behavior in fish from the perspective of vertebrates study Tonic immobility is an interesting behavior that occurs reflexively in various animals under physical restraint by predators The physiological mechanism of thanatosis was extensively investigated during 1960 1980 Researchers have proposed hypotheses to explain the mechanism underlying tonic immobility in vertebrates local inhibition of the central nervous system acceleration of the limbic system abnormal control of the autonomic nervous system On the other hand the peripheral and central mechanisms of tonic immobility were intensely investigated at a behavioral and a neuronal level in stick insects and crickets In the 1970s behavioral ecology has shed light on the aspect of an ultimate factor for tonic immobility Ethologists and ecologists challenged this matter in the laboratory and natural habitats and have collected evidence for its functional roles using mainly insects such as beetles moths locusts More recently studies of tonic immobility in humans are drawing attention as clinicians are trying to explain the defencelessness of rape victims from the viewpoint of animal hypnosis This

timely publication provides an understanding of the past and present research of the mechanisms and functions of tonic immobility This book is intended for researchers and undergraduate graduate students in the field of zoology including physiology ethology ecology and human behavior It will also appeal to the public audience who has an interest in animal behavior including human behavior *The Routledge International Handbook of Neuroaesthetics* Martin Skov, Marcos Nadal, 2022-09-06 The Routledge International Handbook of Neuroaesthetics is an authoritative reference work that provides the reader with a wide ranging introduction to this exciting new scientific discipline The book brings together leading international academics to offer a well balanced overview of this burgeoning field while addressing two questions central to the field how the brain computes aesthetic appreciation for sensory objects and how art is created and experienced The editors Martin Skov and Marcos Nadal have compiled a neuroscientific physiological and psychological overview of the systems underlying the evaluation of sensory objects and aesthetic appreciation Covering a variety of art forms mediated by vision audition movement and language the handbook puts forward a critical review of the current research to explain how and why perceptual and emotional processes are essential for art production The work also unravels the interaction of art with expectations experience and knowledge and the modulation of artistic appreciation through social and contextual settings eventually bringing to light the potential of art to influence mental states health and well being The concepts are presented through research on the neural processes enabling artistic creativity artistic expertise and the evolution of symbolic cognition This handbook is a compelling read for anyone interested in making a first venture into this exciting new area of study and is best suited for students and researchers in the fields of neuroaesthetics perceptual learning and cognitive psychology *Ecological Consequences of Artificial Night Lighting* Catherine Rich, Travis Longcore, 2013-04-16 While certain ecological problems associated with artificial night lighting are widely known for instance the disorientation of sea turtle hatchlings by beachfront lighting the vast range of influences on all types of animals and plants is only beginning to be recognized From nest choice and breeding success of birds to behavioral and physiological changes in salamanders many organisms are seriously affected by human alterations in natural patterns of light and dark Ecological Consequences of Artificial Night Lighting is the first book to consider the environmental effects of the intentional illumination of the night It brings together leading scientists from around the world to review the state of knowledge on the subject and to describe specific effects that have been observed across a full range of taxonomic groups including mammals birds reptiles and amphibians fishes invertebrates and plants Ecological Consequences of Artificial Night Lighting provides a scientific basis to begin addressing the challenge of conserving the nighttime environment It cogently demonstrates the vital importance of this until now neglected topic and is an essential new work for conservation planners researchers and anyone concerned with human impacts on the natural world *A-Life for Music* Eduardo Reck Miranda, 2011-01-01 Artificial Life or A Life aims at the study of all phenomena characteristic of natural living systems through computational modeling wetware hardware

hybrids and other artificial media Its scope ranges from the investigation of the emergence of cognitive processes in natural or artificial systems to the development of life or life like properties from inorganic components A number of musicians in particular composers and musicologists have started to turn to A Life for inspiration and working methodology This edited volume features thirteen chapters written by researchers and practitioners in this exciting emerging field of computer music and includes a CD with various examples music related to A Life

Insect Ecomorphology Oliver Betz, 2025-02-25 *Insect Ecomorphology Linking Functional Insect Morphology to Ecology and Evolution* offers the most up to date knowledge and understanding of the morphology of insects and the functional basis of their diversity This book covers the form and function of insect body structures synthesized with their physiological performance capabilities biological roles and evolutionary histories Written by international experts this book provides a modern outline of the topic exploring the ecomorphology of functional systems such as insect feeding locomotion sensing and reproduction The combination of conceptual and review chapters methodological approaches and case studies enables readers to delve into active research fields and attain a general idea of the explanatory power of the form function performance paradigm The book uncovers key structures of the different regions of the insect body elucidates how they function and investigates their ecological and evolutionary implications *Insect Ecomorphology Linking Functional Insect Morphology to Ecology and Evolution* is a vital resource for entomologists biologists and zoologists especially those seeking to better understand the morphology and physiological impacts tying insects to environments and evolution Integrates traditionally separate fields of research with the aim of understanding insect morphology ecology and evolution Considers the impacts of insect ecomorphology on biomimetic applications Includes conceptual and methodological chapters to help readers appreciate the ways in which ecomorphological studies are performed

Modelling Perception with Artificial Neural Networks Colin R. Tosh, Graeme D. Ruxton, 2010-06-24 Studies of the evolution of animal signals and sensory behaviour have more recently shifted from considering extrinsic environmental determinants to intrinsic physiological ones The drive behind this change has been the increasing availability of neural network models With contributions from experts in the field this book provides a complete survey of artificial neural networks The book opens with two broad introductory level reviews on the themes of the book neural networks as tools to explore the nature of perceptual mechanisms and neural networks as models of perception in ecology and evolutionary biology Later chapters expand on these themes and address important methodological issues when applying artificial neural networks to study perception The final chapter provides perspective by introducing a neural processing system in a real animal The book provides the foundations for implementing artificial neural networks for those new to the field along with identifying potential research areas for specialists

Animal Communication and Noise Henrik Brumm, 2013-12-16 The study of animal communication has led to significant progress in our general understanding of motor and sensory systems evolution and speciation However one often neglected aspect is that signal exchange in every modality

is constrained by noise be it in the transmission channel or in the nervous system This book analyses whether and how animals can cope with such constraints and explores the implications that noise has for our understanding of animal communication It is written by leading biologists working on different taxa including insects fish amphibians lizards birds and mammals In addition to this broad taxonomic approach the chapters also cover a wide array of research disciplines from the mechanisms of signal production and perception to the behavioural ecology of signalling the evolution of animal communication and conservation issues This volume promotes the integration of the knowledge gained by the diverse approaches to the study of animal communication and at the same time highlights particularly interesting fields of current and future research

On the Ecology of Australia's Arid Zone Hans Lambers, 2018-08-21 This book will appeal to an international audience as well as be irresistible to local readers Anyone working or with an interest in Australia's arid zone should need ready access to this book There is no equivalent publication out there at the moment and this book has many authoritative chapters richly illustrated with colourful material The challenge of this book was to assemble current knowledge on particular topics and concepts and principles relating to them It is also forward looking by identifying where there are gaps or inadequacies in knowledge and where future research needs to be directed Lead authors were encouraged to take such an approach they had the opportunity to involve any author they considered appropriate The final product should be a fabulous resource also for university courses especially at MSc level [Wildlife Review](#), 1995

Biotremology: Physiology, Ecology, and Evolution Peggy S. M. Hill, Valerio Mazzoni, Nataša Stritih-Peljhan, Meta Virant-Doberlet, Andreas Wessel, 2022-05-24 Biotremology is a new and emerging discipline in biological sciences that covers all aspects of behavior associated with substrate borne mechanical waves This volume provides state of the art reviews and technical contributions from leading experts and invited younger researchers on topics from signal production and transmission to perception in its ecological context Reviews about the knowledge of well studied groups are complemented with perspectives on the study of less explored groups or contexts Special attention is given to practical issues in measuring substrate borne vibrations as well as to applied biotremology The book appeals to all those interested in communication and vibrational behavior

Insect Hearing Gerald S. Pollack, Andrew C. Mason, Arthur N Popper, Richard R Fay, 2016-06-06 Insect Hearing provides a broadly based view of the functions mechanisms and evolution of hearing in insects With a single exception the chapters focus on problems of hearing and their solutions rather than being focused on particular taxa The exception hearing in *Drosophila* is justified because due to its ever growing toolbox of genetic and optical techniques *Drosophila* is rapidly becoming one of the most important model systems in neurobiology including the neurobiology of hearing Auditory systems whether insectan or vertebrate must perform a number of basic tasks capturing mechanical stimuli and transducing these into neural activity representing the timing and frequency of sound signals distinguishing between behaviorally relevant signals and other sounds and localizing sound sources Studying how these are accomplished in insects

offers a valuable comparative view that helps to reveal general principles of auditory function **Specialization, Speciation, and Radiation** Kelley Tilmon, 2008-01-03 The intimate associations between plants and the insects that eat them have helped define and shape both groups for millions of years This pioneering volume is a comprehensive up to date treatment of the evolutionary biology of herbivorous insects including their relationships with host plants and natural enemies Chapters focus on the dynamic relationships between insects and plants from the standpoint of evolutionary change at different levels of biological organization individuals populations species and clades Written by prominent evolutionary biologists entomologists and ecologists the chapters are organized into three sections Evolution of Populations and Species Co and Macroevolutionary Radiation and Evolutionary Aspects of Pests Invasive Species and the Environment The volume is unified by the idea that understanding the ecological framework of the interactions between herbivorous insects and their host plants is fundamental to understanding their evolution **Time Will Tell** Mari Riess Jones, 2019 Attention is a central concept in psychology The term attention itself has persisted even though it implies a static insulated capacity that we use when it is necessary to focus upon some relevant or stimulating event Riess Jones presents a different way of thinking about attention one that describes it as a continuous activity that is based on energy fluctuating in time A majority of attention research fails to examine influence of event time structure i e a speech utterance on listeners moment to moment attending General research ignores listeners endowed with innate as well as acquired temporal biases Here attending is portrayed as a dynamic interaction of an individual within his or her surroundings Importantly this interaction involves synchronicity between an attender and external events This emphasis on time and synchronicity distinguishes the author s theory called Dynamic Attending Theory DAT from other approaches to attending which characterize attention metaphorically as a filter resource pool spotlight and so on Recent research from neuroscience has lent support to Riess Jones theory and the goal of this book is to bring this new research as well as her own to the wide audience of psychologists interested in attention more broadly

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