

Echolocate Location Sharing 23

Richard R. Fay

How nature shaped echolocation in animals Mariana L Melcón,Cynthia F Moss,2014-11-24 Echolocation has evolved in different groups of animals, from bats and cetaceans to birds and humans, and enables localization and tracking of objects in a dynamic environment, where light levels may be very low or absent. Nature has shaped echolocation, an active sense that engages audiomotor feedback systems, which operates in diverse environments and situations. Echolocation production and perception vary across species, and signals are often adapted to the environment and task. In the last several decades, researchers have been studying the echolocation behavior of animals, both in the air and underwater, using different methodologies and perspectives. The result of these studies has led to rich knowledge on sound production mechanisms, directionality of the sound beam, signal design, echo reception and perception. Active control over echolocation signal production and the mechanisms for echo processing ultimately provide animals with an echoic scene or image of their surroundings. Sonar signal features directly influence the information available for the echolocating animal to perceive images of its environment. In many echolocating animals, the information processed through echoes elicits a reaction in motor systems, including adjustments in subsequent echolocation signals. We are interested in understanding how echolocating animals deal with different environments (e.g. clutter, light levels), tasks, distance to targets or objects, different prey types or other food sources, presence of conspecifics or certain predators, ambient and anthropogenic noise. In recent years, some researchers have presented new data on the origins of echolocation, which can provide a hint of its evolution. Theoreticians have addressed several issues that bear on echolocation systems, such as frequency or time resolution, target localization and beam-forming mechanisms. In this Research Topic we compiled recent work that elucidates how echolocation – from sound production, through echolocation signals to perception- has been shaped by nature functioning in different environments and situations. We strongly encouraged comparative approaches that would deepen our understanding of the processes comprising this active sense.

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.

Beginner's Guide to Echolocation for the Blind and Visually Impaired Tim Johnson,Justin Louchart,2012-10-09

Preface -- Part 1 -- Introduction to echolocation -- Part 2 -- Beginning your journey -- Part 3 -- Start experiencing echolocation -- Part 4 -- Signals -- Part 5 -- Echolocational lessons -- Part 6 -- Continuing education and training.

Biosonar Annemarie Surlykke, Paul E. Nachtigall, Richard R. Fay, Arthur N. Popper, 2014-07-19 Two groups of animals, bats and odontocetes (toothed whales), have independently developed the ability to orient and detect prey by biosonar (echolocation). This active mechanism of orientation allows these animals to operate under low light conditions. Biosonar is a conceptual overview of what is known about biosonar in bats and odontocetes. Chapters are written by bat and odontocetes experts, resulting in collaborations that not only examine data on both animals, but also compare and contrast mechanisms. This book provides a unique insight that will help improve our understanding of biosonar in both animal groups.

Journal of Mammalogy ,1999

Microchiropteran Echolocating Morphology, Ecology and Phylogeny Jeannine Renee Ross, 1994

Selected Water Resources Abstracts ,1989

Field and Laboratory Methods in Animal Cognition Nereida Bueno-Guerra, Federica Amici, 2018-07-31 Would you ask a honeybee to point at a screen and recognise a facial expression? Or ask an elephant to climb a tree? While humans and non-human species may inhabit the same world, it's likely that our perceptual worlds differ significantly. Emphasising Uexküll's concept of 'umwelt', this volume offers practical advice on how animal cognition can be successfully tested while avoiding anthropomorphic conclusions. The chapters describe the capabilities of a range of animals - from ants, to lizards to chimpanzees - revealing how to successfully investigate animal cognition across a variety of taxa. The book features contributions from leading cognition researchers, each offering a series of examples and practical tips drawn from their own experience. Together, the authors synthesise information on current field and laboratory methods, providing researchers and graduate students with methodological advice on how to formulate research questions, design experiments and adapt studies to different taxa.

Aquatic Mammals ,2002

An Immense World Ed Yong, 2022-06-21 NEW YORK TIMES BESTSELLER • A “thrilling” (The New York Times), “dazzling” (The Wall Street Journal) tour of the radically different ways that animals perceive the world that will fill you with wonder and forever alter your perspective, by Pulitzer Prize-winning science journalist Ed Yong “One of this year’s finest works of narrative nonfiction.”—Oprah Daily ONE OF THE TEN BEST BOOKS OF THE YEAR: The Wall Street Journal, The New York Times, Time, People, The Philadelphia Inquirer, Slate, Reader’s Digest, Chicago Public Library, Outside, Publishers Weekly, BookPage ONE OF THE BEST BOOKS OF THE YEAR: Oprah Daily, The New Yorker, The Washington Post, The Guardian, The Economist, Smithsonian Magazine, Prospect (UK), Globe & Mail, Esquire, Mental Floss, Marginalian, She Reads, Kirkus Reviews, Library Journal The Earth teems with sights and textures, sounds and vibrations, smells and tastes, electric and magnetic fields. But every kind of animal, including humans, is

enclosed within its own unique sensory bubble, perceiving but a tiny sliver of our immense world. In *An Immense World*, Ed Yong coaxes us beyond the confines of our own senses, allowing us to perceive the skeins of scent, waves of electromagnetism, and pulses of pressure that surround us. We encounter beetles that are drawn to fires, turtles that can track the Earth's magnetic fields, fish that fill rivers with electrical messages, and even humans who wield sonar like bats. We discover that a crocodile's scaly face is as sensitive as a lover's fingertips, that the eyes of a giant squid evolved to see sparkling whales, that plants thrum with the inaudible songs of courting bugs, and that even simple scallops have complex vision. We learn what bees see in flowers, what songbirds hear in their tunes, and what dogs smell on the street. We listen to stories of pivotal discoveries in the field, while looking ahead at the many mysteries that remain unsolved. Funny, rigorous, and suffused with the joy of discovery, *An Immense World* takes us on what Marcel Proust called "the only true voyage . . . not to visit strange lands, but to possess other eyes." WINNER OF THE ANDREW CARNEGIE MEDAL • FINALIST FOR THE KIRKUS PRIZE • FINALIST FOR THE NATIONAL BOOK CRITICS CIRCLE AWARD • LONGLISTED FOR THE PEN/E.O. WILSON AWARD

Chiroptera Danilo Russo, 2023-11-30 Preliminary □ This volume provides comprehensive overviews of each European bat species' biology including palaeontology, physiology, genetics, reproduction and development, ecology, habitat, diet, mortality and age determination. Their economic significance and management, as well as future challenges for research and conservation are also addressed. Each chapter includes a distribution map, a photograph of the animal and key literature. This authoritative volume of the *Handbook of the Mammals of Europe* is a timely and detailed compilation of all European bats and will appeal to academics, students and professionals in mammal research.

Naturalistic neuroscience – towards a full cycle from lab to field Karen A. Mesce, Anna Lisa Stöckl, Susanne Hoffmann, M. Jerome Beetz, Manu Madhav, 2023-09-06

Selected Water Resources Abstracts, 1989

Mammalogy Terry A. Vaughan, James M. Ryan, Nicholas J. Czaplewski, 2013-12-11 Mammalogy is the study of mammals from the diverse biological viewpoints of structure, function, evolutionary history, behavior, ecology, classification, and economics. Thoroughly updated, the Sixth Edition of *Mammalogy* explains and clarifies the subject as a unified whole. The text begins by defining mammals and summarizing their origins. It moves on to discuss the orders and families of mammals with comprehensive coverage on the fossil history, current distribution, morphological characteristics, and basic behavior and ecology of each family of mammals. The third part of the text progresses to discuss special topics such as mammalian echolocation, physiology, behavior, ecology, and zoogeography. The text concludes with two additional chapters, previously available online, that cover mammalian domestication and mammalian disease and zoonoses.

Canadian Journal of Zoology, 2008

Waltzes with Giants Peter C. Stone, 2012-09-11 A moving portrait of one of the Earth's largest endangered mammals provocatively traces the threatened migrations of the North Atlantic right whale, in a literary and scientific

call to action that reveals how numerous whale and fish species have been decimated for commercial interests.

Optimization of Tuned Mass Dampers Gebrail Bekdaş, Sinan Melih Nigdeli, 2022-04-07 This book is a timely book to summarize the latest developments in the optimization of tuned mass dampers covering all classical approaches and new trends including metaheuristic algorithms. Also, artificial intelligence and machine learning methods are included to predict optimum results by skipping long optimization processes. Another difference and advantage of the book are to provide chapters about several types of control types including passive tuned mass dampers, active tuned mass dampers, tuned liquid dampers, tuned liquid column dampers and inerter dampers. Tuned mass dampers (TMDs) are vibration absorber devices used in all types of mechanic systems. The key factor in the design is an effective tuning of TMDs for the desired performance. In practice, several high-rise structures and bridges were designed by including TMDs. Also, TMDs were installed after the construction of the structures after several negative experiences resulting from the disturbing sway of the structures. In optimum design, several closed-form expressions have been proposed for optimum frequency and damping ratio of TMDs, but the exact optimization requires iterative optimization approaches. The current trend is to use evolutionary algorithms and metaheuristic optimization methods to reach the goal.

Hearing by Bats Richard R. Fay, 2012-12-06 The Springer Handbook of Auditory Research presents a series of comprehensive and synthetic reviews of the fundamental topics in modern auditory research. It is aimed at all individuals with interests in hearing research including advanced graduate students, postdoctoral researchers, and clinical investigators. The volumes will introduce new investigators to important aspects of hearing science and will help established investigators to better understand the fundamental theories and data in fields of hearing that they may not normally follow closely. Each volume is intended to present a particular topic comprehensively, and each chapter will serve as a synthetic overview and guide to the literature. As such, the chapters present neither exhaustive data reviews nor original research that has not yet appeared in peer-reviewed journals. The series focuses on topics that have developed a solid data and conceptual foundation rather than on those for which a literature is only beginning to develop. New research areas will be covered on a timely basis in the series as they begin to mature. Each volume in the series consists of five to eight substantial chapters on a particular topic. In some cases, the topics will be ones of traditional interest for which there is a solid body of data and theory, such as auditory neuroanatomy (Vol. 1) and neurophysiology (Vol. 2). Other volumes in the series will deal with topics which have begun to mature more recently, such as development, plasticity, and computational models of neural processing.

Outside and Inside Bats Sandra Markle, 2004-10-01 Describes the inner and outer workings of bats, discussing their diet, anatomy, and reproduction.

Whales Work Together Clara Coleman, 2017-07-15 Whales are known for working together, often when hunting for food. Orcas use teamwork to herd fast-swimming fish into groups so they're easier to catch. Sperm whales use a similar technique. Humpback whales work in teams of up to 20 whales using a method called bubble-net feeding to

catch their prey. Beautiful, full-color photographs on every page make this an exciting introduction to the ways whales interact with each other to survive. This exciting elementary life-science topic will inspire even reluctant young readers.

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