

Hans G. Wallraff



Avian Navigation: Pigeon Homing as a Paradigm

 Springer

Avian Navigation Pigeon Homing As A Paradigm

Alain Berthoz



Avian Navigation Pigeon Homing As A Paradigm:

Avian Navigation: Pigeon Homing as a Paradigm Hans G. Wallraff, 2005-11-13 How migratory birds can navigate home from their wintering grounds to their breeding sites over hundreds and thousands of kilometres has been an admired mystery over more than a century. Profound advances towards a solution of this problem have been achieved with a model bird, the homing pigeon. This monograph summarizes our current knowledge about pigeon homing about the birds' application of a sun compass and a magnetic compass, of a visual topographical map within a familiar area and most surprisingly of an olfactory map using atmospheric chemosignals as indicators of position in distant unfamiliar areas. *Nature's Compass* James L. Gould, Carol Grant Gould, 2012-04-29 The mysterious and remarkable ways that animals navigate. We know that animals cross miles of water, land and sky with pinpoint precision on a daily basis. But it is only in recent years that scientists have learned how these astounding feats of navigation are actually accomplished. With colorful and thorough detail, *Nature's Compass* explores the remarkable methods by which animals find their way both near home and around the globe. Noted biologist James Gould and popular science writer Carol Gould delve into the elegant strategies and fail-safe backup systems, the invisible sensitivities and mysterious forces and incredible mental abilities used by familiar and rare species as they investigate a multitude of navigation strategies from the simple to the astonishing. The Goulds discuss how animals navigate without instruments and training at a level far beyond human talents. They explain how animals measure time and show how the fragile monarch butterfly employs an internal clock, calendar, compass and map to commence and measure the two thousand mile annual journey to Mexico, all with a brain that weighs only a few thousandths of an ounce. They look at honey bees and how they rely on the sun and mental maps to locate landmarks such as nests and flowers. And they examine whether long distance migrants such as the homing pigeon depend on a global positioning system to let them know where they are. Ultimately, the authors ask if the disruption of migratory paths through habitat destruction and global warming is affecting and endangering animal species. Providing a comprehensive picture of animal navigation and migration, *Nature's Compass* decodes the mysteries of this extraordinary aspect of natural behavior. [International Symposium on Olfaction and Taste](#) Thomas E. Finger, 2009-08-24 This volume presents the latest research in the broad field of the chemical senses from the International Symposium on Olfaction and Taste. This field includes not only the obvious senses of taste and smell but also chemical irritation and related sensations. Scientists investigate the mechanisms and functions of the chemical senses in the oral and nasal cavity as well as in the viscera including the gut and airways. This volume takes an integrative approach and provides historical context for modern research in the field. NOTE: Annals volumes are available for sale as individual books or as a journal. For information on institutional journal subscriptions, please visit www.blackwellpublishing.com. NYAS ACADEMY MEMBERS Please contact the New York Academy of Sciences directly to place your order www.nyas.org. Members of the New York Academy of Science receive full text access to the Annals online and discounts on print volumes. Please visit <http://www.nyas.org>

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Behavioral Lateralization in Vertebrates Davide Csermely, Lucia Regolin, 2012-07-16 Functional lateralization in the human brain was first identified in the classic observations by Broca in the 19th century. Only one hundred years later, however, research on this topic began anew, discovering that humans share brain lateralization not only with other mammals but with other vertebrates and even invertebrates. Studies on lateralization have also received considerable attention in recent years due to their important evolutionary implications, becoming an important and flourishing field of investigation worldwide among ethnologists and psychologists. The chapters of this book concern the emergence and adaptive function of lateralization in several aspects of behavior for a wide range of vertebrate taxa. These studies span from how lateralization affects some aspects of fitness in fishes or how it affects the predatory and the exploratory behavior of lizards to navigation in the homing flights of pigeons, social learning in chicks, the influence of lateralization on the ontogeny process of chicks and the similarity of manual lateralization/handedness between humans and apes, our closest relatives.

Orientation and Navigation in Vertebrates Andrii Rozhok, 2008-06-25 This book reviews all major models and hypotheses concerning the mechanisms supposed to underlie the process of navigation in vertebrates. It covers data on all major model groups of vertebrates studied in the context of animal navigation, such as migratory birds, homing pigeons, sea turtles, subterranean mammals, and some migratory fish species. Some other less studied groups, e.g., whales, have also been touched. The first part of the book describes different sources of navigational information with their specific navigational mechanisms known or supposed to be employed by animals for navigational goals. The second part discusses possible functions of these mechanisms in different vertebrates and in the context of different navigational tasks, ranging from short range navigation, often performed by animals within as small an area as several square meters, to long distance, global scale migrations performed by many birds and some sea turtles during their lifespan.

Neurobiology of "Umwelt" Alain Berthoz, 2008-11-14 At the beginning of the 20th century, German biologist Jakob von Uexküll created the concept of Umwelt to denote the environment as experienced by a subject. This concept of environment differs from the idea of passive surroundings and is defined not just by physical surroundings but is rather a subjective universe, a space weighted with meaning. Today, neuroscience provides a new way to look at the brain's capability to create a representation of the world. At the same time, behavioural specialists are demonstrating that animals have a richer mental universe than previously known. Philosophical reflection thus finds itself with more experimental and objective data as well. Nearly a century after the publication of von Uexküll's founding work *Umwelt und Innenwelt der Tiere*, was published in 1909, neurobiologists, psychologists, sociologists, anthropologists, ethologists, and philosophers revisit his mail concept at the light of modern science.

The Routledge Handbook of Philosophy of Animal Minds Kristin Andrews, Jacob Beck, 2017-07-06 While philosophers have been interested in animals since ancient times, in the last few decades the subject of animal minds has emerged as a major topic in philosophy. The Routledge Handbook of Philosophy of Animal Minds is an

outstanding reference source to the key topics problems and debates in this exciting subject and is the first collection of its kind Comprising nearly fifty chapters by a team of international contributors the Handbook is divided into eight parts Mental representation Reasoning and metacognition Consciousness Mindreading Communication Social cognition and culture Association simplicity and modeling Ethics Within these sections central issues debates and problems are examined including whether and how animals represent and reason about the world how animal cognition differs from human cognition whether animals are conscious whether animals represent their own mental states or those of others how animals communicate the extent to which animals have cultures how to choose among competing models and explanations of animal behavior and whether animals are moral agents and or moral patients The Routledge Handbook of Philosophy of Animal Minds is essential reading for students and researchers in philosophy of mind philosophy of psychology ethics and related disciplines such as ethology biology psychology linguistics and anthropology Aeroecology Phillip B. Chilson, Winifred F. Frick, Jeffrey F. Kelly, Felix Liechti, 2018-03-23 This book consists of a diverse collection of chapters that seeks to broaden our fundamental understanding of the ecological function and biological importance of the Earth's lower atmosphere which provides a huge living space for billions of animals moving within and across continents Their migration dispersal and foraging activities connect water and land habitats within and across continents Drawing upon the wide ranging experience of the authors the book takes an inherently interdisciplinary approach that serves to introduce the reader to the topic of aeroecology frame some of the basic biological questions that can be addressed within the context of aeroecology and highlight several existing and emerging technologies that are being used to promote aeroecological studies The book begins with several background chapters that provide introduction into such topics as atmospheric science the concept of the habitat animal physiology and methods of navigation It then continues with a broad discussion of observational methods available to and used by aeroecologists Finally several targeted examples of aeroecological studies are presented Following the development of the chapters the reader is provided with a unifying framework for investigating how the dynamic properties of meteorological conditions at local regional and global scales affect the organisms that depend on the air for foraging and movement Material presented in the book should be of interest to anyone wishing to gain a comprehensive understanding of the aerosphere itself and the myriad airborne organisms that inhabit and depend upon this environment for their existence The material should be accessible to a diverse set of readers at all stages of training and across a range of research expertise Machine Vision and Navigation Oleg Sergiyenko, Wendy Flores-Fuentes, Paolo Mercorelli, 2019-09-30 This book presents a variety of perspectives on vision based applications These contributions are focused on optoelectronic sensors 3D Discusses applications such as daily use devices including robotics detection tracking and stereoscopic vision systems pose estimation avoidance of objects control and data exchange for navigation and aerial imagery processing Includes research contributions in scientific industrial and civil applications **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 complementing a wealth of information. As an online reference, this work will be subject to periodic 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.

How Birds Find Their Way Helmut Satz, 2025-08-21. This book describes our current understanding of the navigation of birds, their methods, capabilities and achievements. Our knowledge of this field has progressed immensely in the last fifty

years due to the availability of miniaturized tracking and positioning devices which now allow us to know when and where a specific bird is located and where it is flying The book is written for a general readership and requires no more of the reader than a true interest in the topic The text provides accessible overview of the relevant geographic and geophysical basics latitudes and longitudes geomagnetism and of the neural faculties that allow birds to identify these features The author surveys a variety of striking avian achievements ranging from trans ocean and pole to pole flights to circumnavigations of the earth Readers will also learn how the required knowledge is provided and passed on to future generations through instinct as well as through experience Our understanding of such information transfer is today much deeper than it was fifty years ago Nevertheless many open questions remain How an albatross leaving the coast of Brazil can find the way to its nest on a rock off the coast of New Zealand this is a question still waiting to be answered Thus a further purpose of the book is to stimulate additional interest and new research into the fascinating and challenging world of avian navigation

Animal Thinking Randolph Menzel, Julia Fischer, 2024-03-19 Experts from psychology neuroscience philosophy ecology and evolutionary biology assess the field of animal cognition Do animals have cognitive maps Do they possess knowledge Do they plan for the future Do they understand that others have mental lives of their own This volume provides a state of the art assessment of animal cognition with experts from psychology neuroscience philosophy ecology and evolutionary biology addressing these questions in an integrative fashion It summarizes the latest research identifies areas where consensus has been reached and takes on current controversies Over the last thirty years the field has shifted from the collection of anecdotes and the pursuit of the subjective experience of animals to a rigorous hypothesis driven experimental approach Taking a skeptical stance this volume stresses the notion that in many cases relatively simple rules may account for rather complex and flexible behaviors The book critically evaluates current concepts and puts a strong focus on the psychological mechanisms that underpin animal behavior It offers comparative analyses that reveal common principles as well as adaptations that evolved in particular species in response to specific selective pressures It assesses experimental approaches to the study of animal navigation decision making social cognition and communication and suggests directions for future research The book promotes a research program that seeks to understand animals cognitive abilities and behavioral routines as individuals and as members of social groups

The New Visual Neurosciences John S. Werner, Leo M. Chalupa, 2013-10-25 A comprehensive review of contemporary research in the vision sciences reflecting the rapid advances of recent years Visual science is the model system for neuroscience its findings relevant to all other areas This essential reference to contemporary visual neuroscience covers the extraordinary range of the field today from molecules and cell assemblies to systems and therapies It provides a state of the art companion to the earlier book *The Visual Neurosciences* MIT Press 2003 This volume covers the dramatic advances made in the last decade offering new topics new authors and new chapters *The New Visual Neurosciences* assembles groundbreaking research written by international authorities Many of the 112 chapters treat seminal topics not included in

the earlier book These new topics include retinal feature detection cortical connectomics new approaches to mid level vision and spatiotemporal perception the latest understanding of how multimodal integration contributes to visual perception new theoretical work on the role of neural oscillations in information processing and new molecular and genetic techniques for understanding visual system development An entirely new section covers invertebrate vision reflecting the importance of this research in understanding fundamental principles of visual processing Another new section treats translational visual neuroscience covering recent progress in novel treatment modalities for optic nerve disorders macular degeneration and retinal cell replacement The New Visual Neurosciences is an indispensable reference for students teachers researchers clinicians and anyone interested in contemporary neuroscience Associate Editors Marie Burns Joy Geng Mark Goldman James Handa Andrew Ishida George R Mangun Kimberley McAllister Bruno Olshausen Gregg Recanzone Mandyam Srinivasan W Martin Usrey Michael Webster David Whitney Sections Retinal Mechanisms and Processes Organization of Visual Pathways Subcortical Processing Processing in Primary Visual Cortex Brightness and Color Pattern Surface and Shape Objects and Scenes Time Motion and Depth Eye Movements Cortical Mechanisms of Attention Cognition and Multimodal Integration Invertebrate Vision Theoretical Perspectives Molecular and Developmental Processes Translational Visual Neuroscience

Guidance Information Processing Methods in Airborne Optical Imaging Seeker Tianxu Zhang, Yuehuan Wang, Sheng Zhong, 2019-06-01 This book covers all main aspects of guidance information processing technologies for airborne optical imaging seekers including theoretical models image pre processing automatic target detection recognition and tracking and embedded real time processing systems The book is divided into three major sections firstly a theoretical model for optical seeker information processing is introduced then information processing methods are presented including target modeling online image pre processing typical surface fixed target detection and recognition and moving target detection and recognition lastly embedded real time processing systems are introduced including new system architectures image processing ASIC SoC design embedded real time operating systems system implementation aspects and system testing and evaluation technologies The book offers a unique and valuable resource helping readers understand both fundamental and advanced information processing technologies employed in airborne optical imaging seekers

In the Light of Evolution National Academy of Sciences, 2013-01-25 The central goal of the In the Light of Evolution ILE series is to promote the evolutionary sciences through state of the art colloquia in the series of Arthur M Sackler colloquia sponsored by the National Academy of Sciences and their published proceedings Each installment explores evolutionary perspectives on a particular biological topic that is scientifically intriguing but also has special relevance to contemporary societal issues or challenges This book is the outgrowth of the Arthur M Sackler Colloquium Brain and Behavior which was sponsored by the National Academy of Sciences on January 20 21 2012 at the Academy's Arnold and Mabel Beckman Center in Irvine CA It is the sixth in a series of Colloquia under the general title In the Light of Evolution Specifically In Light of Evolution Brain and Behavior

focuses on the field of evolutionary neuroscience that now includes a vast array of different approaches data types and species This volume is also available for purchase with the In the Light of Evolution six volume set *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 Future of Post-Human Migration Peter Baofu, 2013-01-03 Is migration really so constructive that as Ralph Emerson 1909 once wrote in the context of the New World asylum of all nations will construct a new race a new religion a new state a new smelting pot WK 2012 This noble lie the melting pot in the 20th century can be contrasted with an opposing noble lie of the salad bowl in the 21st century when those in multiculturalism like Tariq Modood 2007 argue nowadays that multiculturalism is most timely and necessary and we need more not less WK 2012a Contrary to these opposing noble lies and other views as will be discussed in the book migration in relation to both the Same and the Others is neither possible or impossible nor desirable or undesirable to the extent that the respective ideologues on different sides would like us to believe Surely this exposure of the opposing noble lies about migration does not mean that the specific field of study on migration is a waste of time or that those interdisciplinary fields related to the study of migration like animal migration gene migration diaspora politics cultural assimilation human trafficking urbanization brain drain tourism ethnic cleansing environmental migration globalization religious persecution national identity gentrification fifth column migration art xenophobia space colonization multiculturalism and so on are worthless Needless to say neither of these extreme views is reasonable Instead this book offers an alternative better way to understand the future of migration especially in the dialectic context of the Same and the Others while learning from different

approaches in the literature but without favoring any one of them or integrating them since they are not necessarily compatible with each other More specifically this book offers a new theory that is the theory of the cyclical progression of migration to go beyond the existing approaches in a novel way If successful this seminal project is to fundamentally change the way that we think about migration in relation to Sameness Otherness and identity from the combined perspectives of the mind nature society and culture with enormous implications for the human future and what the author originally called its post human fate

Animal Movement Across Scales Lars-Anders Hansson,Susanne Åkesson,2014 Movement dispersal and migration on land in the air and in water are pervading features of animal life They are performed by a huge variety of organisms from the smallest protozoans to the largest whales and can extend over widely different distance scales from the microscopic to global Integrating the study of movement dispersal and migration is crucial for a detailed understanding of the spatial scale of adaptation and for analysing the consequences of landscape and climate change as well as of invasive species This novel book adopts a broad cross taxonomic approach to animal movement across both temporal and spatial scales addressing how and why animals move and in what ways they differ in their locomotion and navigation performance Written by an integrated team of leading researchers the book synthesizes our current knowledge of the genetics of movement including gene flow and local adaptations whilst providing a future perspective on how patterns of animal migration may change over time together with their potential evolutionary consequences Novel technologies for tracking the movement of organisms across scales are also discussed ranging from satellite devices for tracking global migrations to nanotechnology that can follow animals only a millimetre in size Animal Movement Across Scales is particularly suitable for graduate level students taking courses in spatial animal ecology animal migration and movement ecology as well as providing a source of fresh ideas and opinions for those already active within the field It will also be of interest and use to a broader audience of professional biologists interested in animal movements and migrations

Natural Neuroscience Nachum Ulanovsky,2025-04-15 A new approach to brain research that emphasizes studying the brain under naturalistic conditions Natural neuroscience departs from the classical reductionist approach which emphasizes control at the expense of natural behaviors by proposing a shift toward real world relevance natural behaviors and ecological validity In Natural Neuroscience Nachum Ulanovsky presents the conceptual empirical and technological underpinnings that enabled this new field Natural neuroscience researchers posit that when studying any brain region in any animal whether standard mammalian species such as rodents and primates or nonstandard species it is crucial to pursue the animal s natural behaviors and to consider the natural problems it needs to solve By preventing rich natural behaviors says Ulanovsky we miss key aspects of brain function and we may not even know what we miss The author surveys recent studies that have begun to move in this direction across multiple subfields of neuroscience including sensory cognitive social and behavioral neuroscience He discusses technological advances that are allowing the pursuit of more naturalistic experiments including methods for

recording neural activity in freely behaving freely moving animals e g wired and wireless electrophysiology and imaging methods for manipulating neural activity in freely moving animals e g wired and wireless optogenetics and methods for quantifying the details of behavior He makes connections across the four major scientific disciplines that focus on understanding behavior neuroscience behavioral ecology ethology and psychology bringing them closer together and closer to real life

The Lost Generation Nidhi Dugar Kundalia, 2015-12-24 A Haridwar pandit who maintains genealogical records of families for centuries a professional mourner who has mastered the art of fake tears a letter writer who overlooks the lies that a sex worker makes him write to her family back home These are remnants of an India that still exist in its old streets and neighbourhoods an unshakeable sense of belonging to a time that was the everyday life of our ancestors In *The Lost Generation* Nidhi Dugar Kundalia narrates the unforgettable stories of eleven professionals from the hauntingly beautiful rudaalis to the bizarre tasks of a street dentist uncovering the romance tragedy and old world charm of India's ageing bylanes and its incredible living history

Whispering the Techniques of Language: An Psychological Quest through **Avian Navigation Pigeon Homing As A Paradigm**

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Avian Navigation Pigeon Homing As A Paradigm Introduction

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