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[Rat Trap](#) Springer Science & Business Media

Many important planning decisions in society and business depend on proper knowledge and a correct understanding of movement, be it in transportation, logistics, biology, or the life sciences. Today the widespread use of mobile phones and technologies like GPS and RFID provides an immense amount of data on location and movement. What is needed are new methods of visualization and algorithmic data analysis that are tightly integrated and complement each other to allow end-users and analysts to extract useful knowledge from these extremely large data volumes. This is exactly the topic of this book. As the authors show, modern visual analytics techniques are ready to tackle the enormous challenges brought about by movement data, and the technology and software needed to exploit them are available today. The authors start by illustrating the different kinds of data available to describe movement, from individual trajectories of single objects to multiple trajectories of many objects, and then proceed to detail a conceptual framework, which provides the basis for a fundamental understanding of movement data. With this basis, they move on to more practical and technical aspects, focusing on how to transform movement data to make it more useful, and on the infrastructure necessary for performing visual analytics in practice. In so doing they demonstrate that visual analytics of movement data can yield exciting insights into the behavior of moving persons and objects, but can also lead to an understanding of the events that transpire when things move. Throughout the book, they use sample applications from various domains and illustrate the examples with graphical depictions of both the interactive displays and the analysis results. In summary, readers will benefit from this detailed description of the state of the art in visual analytics in various ways. Researchers will appreciate the scientific precision involved, software technologists will find essential information on algorithms and systems, and practitioners will profit from readily accessible examples with detailed illustrations for practical purposes.

Introduction and spread of lumpy skin disease in South, East and Southeast Asia MDPI

"Three cheers for this splendid, surprising, inspiring book!"—Sy Montgomery, author of *The Soul of an Octopus* Alone in a vast wildlife refuge with little direction and no experience, a Cornell Laboratory of Ornithology student found herself responsible for a project of historical importance—to bring the Bald Eagle back from near extinction. In *Return to the Sky*, Tina Morris, one of the first women to engage in a raptor reintroduction program, shares her remarkable story that is as much about the human spirit as it is about birds of prey. In the spring of 1975, on the eve of the US Bicentennial, Tina was selected to reintroduce Bald Eagles into New York State in the hope that the species could eventually repopulate eastern North America. Young and female in a male-dominated field, Tina was handed an assignment to rehabilitate a population that had been devastated by the effects of DDT. The challenges were prodigious—there was no model to emulate for a bird of the eagle's size, for one—but Tina soon found that her own path to self-discovery and confidence-building was deeply connected with the survival of the species she was chosen to protect. Ultimately, Tina spent two years playing "mother" to seven eaglets at Montezuma National Wildlife Refuge, east of Seneca Falls in New York. Driven by her passion, she discovered unknown reserves of patience, determination, and grit. At a time when the mass extinction of bird species is a critical global topic, *Return to the Sky* reminds us how, with a mix of common sense, resilience, and resolve, humans can be effective stewards of the natural world. "This is more than an account of environmental triumph; it is a call to action. At a time of urgent climate and biodiversity crises, this book challenges each of us to examine our surroundings and consider how we can contribute to the sustainability of our planet."—Dr. Elizabeth Gray, CEO, National Audubon Society, from the foreword "Emotional and inspiring proof that one person can make a difference."—Kirkus Reviews "Inspiring . .

. . . the writing is clear and eloquent . . . Morris expertly blends moving memoir and scientific research in this remarkable and affecting story."—Booklist

[Scientific and Technical Aerospace Reports](#) SIU Press

It's never too early to read to a child, especially when you have *Story S-t-r-e-t-c-h-e-r-s (R)* The youngest children love the repetition of words and experiences that stories provide. "Story S-t-r-e-t-c-h-e-r-s(R) for Infants, Toddlers and Twos" contains 80 age-appropriate children's books and 240 ways to s-t-r-e-t-c-h the stories in new ways to enhance the learning process. Organized by age, this book is a wonderful addition to the *Story S-t-r-e-t-c-h-e-r-s(R)* series, offering new ways for young children to experience the magic of a good book. Children reap amazing benefits from being exposed to reading at an early age, and "Story S-t-r-e-t-c-h-e-r-s(R) for Infants, Toddlers and Twos" makes reading with infants, toddlers, and twos an adventure in learning and fun

Art Fundamentals: Theory and Practice Troubador Publishing Ltd

For thousands of years, tracking animals meant following footprints. Now satellites, drones, camera traps, cellphone networks, apps and accelerometers allow us to see the natural world like never before. Geographer James Cheshire and designer Oliver Uberti take you to the forefront of this animal-tracking revolution. Meet the scientists gathering wild data - from seals mapping the sea to baboons making decisions, from birds dodging tornadoes to jaguars taking selfies. Join the journeys of sharks, elephants, bumblebees, snowy owls, and a wolf looking for love. Find an armchair, cancel your plans and go where the animals go.

Life Sciences and Space Research Frontiers Media SA

This book provides a clear foundation, based on physical biology and biomechanics, for understanding the underlying mechanisms by which animals have evolved to move in their physical environment. It integrates the biomechanics of animal movement with the physiology of animal energetics and the neural control of locomotion. The author also communicates a sense of the awe and fascination that comes from watching the grace, speed, and power of animals in motion. Movement is a fundamental distinguishing feature of animal life, and a variety of extremely effective mechanical and physiological designs have evolved. Common themes are observed for the ways in which animals successfully contend with the properties of a given physical environment across diversity of life forms and varying locomotor modes. Understanding the common principles of design that span a diverse array of animals requires a broad comparative and integrative approach to their study. This theme persists throughout the book, as various modes and mechanisms of animal locomotion are covered. Since an animal's size is equally critical to its functional design, the effects of scale on locomotor energetics and mechanics are also discussed. Biewener begins by examining the underlying machinery for movement: skeletal muscles used for force generation, skeletons used for force transmission, and spring-like elements used for energy savings. He then describes the basic mechanisms that animals have evolved to move over land, in and on the surface of the water, and in the air. Common fluid dynamic principles are discussed as background to both swimming and flight. In addition to discussing the locomotor mechanisms of complex animals, the locomotor movement of single cells is also covered. Common biochemical features of cellular metabolism are then reviewed before discussing the energetic aspects of various locomotor modes. Strategies for conserving energy and moving economically are again highlighted in this section of the book. Emphasis is placed on comparisons of energetic features across locomotor modes. The book concludes with a discussion of the neural control of animal locomotion. The basic neurosensory and motor elements common to vertebrates and arthropods are discussed, and features of sensorimotor organization and function are highlighted. These are then examined in the context of specific examples of how animals control the rhythmic patterns of limb and body movement that underlie locomotor function and stability.

Animal locomotion Animal locomotionStory Stretchers for Infants, Toddlers, and Twos

This Research Topic is devoted to arm and hand movement in health as well as in several disease

conditions. It is a collection of several original research papers and reviews, clinical case studies, hypothesis and theory articles, opinions, commentaries, and methods papers that cover some important aspects of the topic from distinct scientific perspectives. We invite the readers to appreciate the range in methodologies and experimental designs that together have led to widen our understanding of this especially broad field of research.

[Monkey Business Food & Agriculture Org.](#)

This book provides readers with a timely guide to the application of biomimetic principles in architecture and engineering design, and describes various aspects of motion in living systems. Geometric, mechanical and rhythmic parameters are listed and illustrated using examples from flora and fauna, and contextualized within an integrated mapping of biomechanical combinations that have proved their success in the course of evolution. For designers, the schemes identify those aspects that have a high probability of being efficiently combined, paving the way for new solutions and offering a method of evolutionary problem solving. The book guides readers through the field of nature-inspired design, offering an extraordinary resource for professional architects, engineers and designers, as well as for researchers and students. Throughout the book, natural evolution is approached as a powerful resource that can enrich architecture and design by providing innovative, optimal and sustainable solutions.

[Management of Animal Care and Use Programs in Research, Education, and Testing](#) Random House
Lumpy skin disease (LSD) is a vector-borne disease of cattle and Asian water buffalo that is included on the OIE (World Organisation for Animal Health) list of notifiable diseases. In July 2019 LSD was introduced to Bangladesh, China and India and then spread to Nepal and Bhutan and in 2020 to various provinces of China and India. A qualitative risk assessment was conducted to assess the likelihood of introduction and/or spread of LSD in 23 countries in South, East and Southeast Asia based on information available up to 31 October 2020. The economic impact of LSD for South, East and Southeast countries was estimated to be up to USD 1.45 billion in direct losses of livestock and production. These losses may be higher, due to the severe trade implications for infected countries. This document provides an overview of LSD control approaches, including prevention. The cost-effectiveness estimation demonstrates a strong economic justification for vaccination and advocates for a regional approach to harmonize control measures.

[Readers' Guide to Periodical Literature](#) National Academies Press

How should we treat non-human animals? In this immensely powerful and influential book (now with a new introduction by Sapiens author Yuval Noah Harari), the renowned moral philosopher Peter Singer addresses this simple question with trenchant, dispassionate reasoning. Accompanied by the disturbing evidence of factory farms and laboratories, his answers triggered the birth of the animal rights movement. 'An extraordinary book which has had extraordinary effects... Widely known as the bible of the animal liberation movement' Independent on Sunday In the decades since this landmark classic first appeared, some public attitudes to animals may have changed but our continued abuse of animals in factory farms and as tools for research shows that the underlying ideas Singer exposes as ethically indefensible are still dominating the way we treat animals. As Yuval Harari's brilliantly argued introduction makes clear, this book is as relevant now as the day it was written.

[Running Dogs and Rose's Children](#) Columbia University Press

Running Dogs and Rose's Children tell the story of how Eric and wife Jenny are plunged into parenthood after adopting three siblings aged eleven, five and one after their mother died of cancer. The new family set about starting over, building a family life together from scratch, in their rambling farmhouse outside Harare, Zimbabwe. Their story was on course for a happily ever after ending, until their lives and the lives of those around them were destroyed by Robert Mugabe's war of terror, unleashed on white farmers and opposition party members, launching an era of economic, social and political turmoil which eventually saw the family fleeing the country for fear of being killed. Eric's fierce love of his country and his principles saw him immersing himself in the dangerous opposition politics of the day where elections were rigged, and fellow party members were tortured and murdered. Somehow Eric de Jong's irrepressible sense of humour bubbles throughout this absorbing, honest and deeply personal account of a growing family, of love, entrepreneurial success and failure, mental illness, political exile, and the distressing and often absurd collapse of a beautiful African country and stoicism of its people.

[Talking to Animals](#) CRC Press

The National Institute of Health recently announced its plan to retire the fifty remaining chimpanzees held in national research facilities and place them in sanctuaries. This significant decision comes after a lengthy process of examination and debate about the ethics of animal research. For decades, proponents of such research have argued that the discoveries and benefits for humans far outweigh the costs of the traumatic effects on the animals; but today, even the researchers themselves have come to question the practice. John P. Gluck has been one of the scientists at the forefront of the movement to end research on primates, and in *Voracious Science and Vulnerable Animals* he tells a vivid, heart-rending, personal story of how he became a vocal activist for animal protection. Gluck begins by taking us inside the laboratory of Harry F. Harlow at the University of Wisconsin, where Gluck worked as a graduate student in the 1960s. Harlow's primate lab became famous for his behavioral experiments in maternal deprivation and social isolation of rhesus macaques. Though trained as a behavioral scientist, Gluck finds himself unable to overlook the intense psychological and physical damage these experiments wrought on the macaques. Gluck's sobering and moving account reveals how in this and other labs, including his own, he came to grapple with the uncomfortable justifications that many researchers were offering for their work. As his sense of conflict grows, we're right alongside him, developing a deep empathy for the often smart and always vulnerable animals used for these experiments. At a time of unprecedented recognition of the intellectual cognition and emotional intelligence of animals, *Voracious Science and Vulnerable Animals* is a powerful appeal for our respect and compassion for those creatures who have unwillingly dedicated their lives to science. Through the words of someone who has inflicted pain in the name of science and come to abhor it, it's important to know what has led this far to progress and where further inroads in animal research ethics are needed.

[The Animal's Agenda](#) Blue Weaver Distributors

In the past decade, philosopher Bernard Rollin points out, we have "witnessed a major revolution in social concern with animal welfare and the moral status of animals." Adopting the stance of a moderate, Harold Guither attempts to provide an unbiased examination of the paths and goals of the members of the animal rights movement and of its detractors. Given the level of confusion, suspicion, misunderstanding, and mistrust between the two sides, Guither admits the difficulty in locating, much less staying in, the middle of the road. The philosophical conflict, however, is fairly clear: those who resist reform, fearing that radical change in the treatment of animals will infringe on their business and property rights, versus the new activists who espouse a different set of moral and ethical obligations toward animals. From his position as a moderate, Guither presents a brief

history of animal protection and the emergence of animal rights, describes the scope of the movement, and identifies major players such as Paul and Linda McCartney and organizations such as People for the Ethical Treatment of Animals that are actively involved in the movement. He concentrates on what is actually happening in the 1990s, discussing in detail the possible consequences of the current debate for those who own, use, or enjoy animals in entertainment and leisure pursuits. A reference work for students in animal sciences and veterinary medicine, the book also poses questions for philosophers, sociologists, and public policymakers as well as animal owners, animal and biomedical researchers, and manufacturers and distributors of animal equipment and supplies.

[Energy Research Abstracts](#) Oxford University Press

With devastating logic and clarity, Dr Pandora Pound, Research Director at Safer Medicines Trust, comprehensively dismantles the case for animal research, bringing to an end the 150-year-old debate about its value once and for all.

[Deep Brain Stimulation \(DBS\) Applications](#) Frontiers Media SA

Animal locomotion Story Stretchers for Infants, Toddlers, and Twos Gryphon House, Inc.

[Voracious Science and Vulnerable Animals](#) Elsevier Health Sciences

How can someone who condemns hunting, animal farming, and animal experimentation also favor legal abortion, which is the deliberate destruction of a human fetus? The authors of *Beating Hearts* aim to reconcile this apparent conflict and examine the surprisingly similar strategic and tactical questions faced by activists in the pro-life and animal rights movements. *Beating Hearts* maintains that sentience, or the ability to have subjective experiences, grounds a being's entitlement to moral concern. The authors argue that nearly all human exploitation of animals is unjustified. Early abortions do not contradict the sentience principle because they precede fetal sentience, and *Beating Hearts* explains why the mere potential for sentience does not create moral entitlements. Late abortions do raise serious moral questions, but forcing a woman to carry a child to term is problematic as a form of gender-based exploitation. These ethical explorations lead to a wider discussion of the strategies deployed by the pro-life and animal rights movements. Should legal reforms precede or follow attitudinal changes? Do gory images win over or alienate supporters? Is violence ever principled? By probing the connections between debates about abortion and animal rights, *Beating Hearts* uses each highly contested set of questions to shed light on the other.

University of Chicago Press

Modern crocodylians--crocodiles, alligators, caiman (Central and South America), and gharials (India)--have evolved over 250 million years from a fully terrestrial, bipedal ancestor. Along with birds, crocodylians are the only living members of Archosauria, the group including nonavian dinosaurs. *Ruling Reptiles* features contributions on a broad range of topics surrounding crocodylian evolution and biology including osteology, osteohistology, developmental biology, myology, odontology, functional morphology, allometry, body size estimation, taphonomy, parasitology, ecology, thermophysiology, and ichnology. It demonstrates how the wide variety of these studies can also provide crucial insights into dinosaurian biology and evolution. Featuring the latest findings and interpretations, *Ruling Reptiles: Crocodylian Biology and Archosaur Paleobiology* is an essential resource for zoologists, biologists, and paleontologists.

[Animal Locomotion](#) Elsevier

This book is a printed edition of the Special Issue "Deep Brain Stimulation (DBS) Applications" that was published in *Brain Sciences*

[The Farmer & Stock-breeder](#) Simon and Schuster

The case that launched the animal rights movement. Working undercover at a research laboratory in 1981, Alex Pacheco's discoveries led to the first criminal prosecution for animal cruelty against a medical researcher.

[Story Stretchers for Infants, Toddlers, and Twos](#) Simon and Schuster

New York Times bestselling author Jon Katz—"a Thoreau for modern times" (*San Antonio Express-News*)—offers us a deeper understanding of the inner lives of animals and teaches us how we can more effectively communicate with them, made real by his own remarkable experiences with a wide array of creatures great and small. In *Talking to Animals*, journalist Jon Katz—who left his Manhattan life behind two decades ago for life on a farm where he is surrounded by dogs, cats, sheep, horses, cows, goats, and chickens—marshals his experience to offer us a deeper insight into animals and the tools needed for effectively communicating with them. Devoting each chapter to a specific animal from his life, Katz tells funny and illuminating stories about his profound experiences with them, showing us how healthy engagement with animals falls into five key areas: Food, Movement, Visualization, Language, and Instincts. Along the way, we meet Simon the donkey who arrives at Katz's farm near death and now serves as his Tai Chi partner. We meet Red the dog who started out antisocial and untrained and is now a therapy dog working with veterans from Iraq and Afghanistan. And we meet Winston, the dignified and brave rooster who was injured defending his hens from a hawk and who has better interpersonal skills than most humans. Thoughtful and intelligent, lively and powerful, this book will completely change the way you think about and interact with animals. Katz's "honest, straightforward, and sometimes searing prose will speak to those who love animals, and might well convert some who do not" (*Booklist*).

[Invertebrate Neurobiology: Sensory Systems, Information Integration, Locomotor- and Behavioral Output](#) Gryphon House, Inc.

The first edition of *Equine Locomotion* has established itself as the book in the equine literature that discusses all aspects of equine locomotion and gait analysis, written by an international team of editors and contributors. The new edition continues this trend and gives the reader a complete picture of the horse in motion, at the same time including many recent findings in this area. The book begins with a history of man's association with the horse and then continues to discuss with comprehensive descriptions of the present state of knowledge beginning with the initiation of gait and ending with the more scientific area of computer modeling. In the new edition, the list of contributors continues to comprise of authors who are acknowledged experts in their subject areas and includes many new illustrations. •international team of editors and contributors, with leading experts from the USA, the Netherlands, Sweden and France (all centres of excellence for the study of equine locomotion) •editors are from two of the worlds leading locomotion centres - Utrecht and Michigan •highly illustrated with nearly 500 detailed line drawings and illustrations •covers all you will ever need to know about equine locomotion, gait analysis and much more •international team of editors and contributors, with leading experts from the USA, the Netherlands, Sweden and France (all centres of excellence for the study of equine locomotion) •editors are from two of the worlds leading locomotion centres - Utrecht and Michigan •highly illustrated with nearly 500 detailed line drawings and illustrations •covers all you will ever need to know about equine locomotion, gait analysis and much more

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