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KAIYA SMALL

A Companion to Biological Anthropology Harvard Business Press

Inequality kills. Both rich and poor die younger in countries with the greatest inequalities in income. Countries such as the United States with big gaps between rich and poor have higher death rates than those with smaller gaps such as Sweden and Japan. Why? In this provocative book, Richard Wilkinson provides a novel Darwinian approach to the question. Wilkinson points out that inequality is new to our species: in our two-million-year history, human societies became hierarchical only about ten thousand years ago. Because our minds and bodies are adapted to a more egalitarian life, today's hierarchical structures may be considered unnatural. To people at the bottom of the heap, the world seems hostile and the stress is harmful. If you are not in control, you're at risk. This is a penetrating analysis of patterns of health and disease that has implications for social policy. Wilkinson concludes that rather than relying on more police, prisons, social workers, or doctors, we must tackle the corrosive social effects of income differences in our society.

Genetic Programming Theory and Practice IX Simon and Schuster

Campaigns on the Cutting Edge evaluates the current trends of today's campaigns and assesses the innovative changes these well-tuned organizations are making on the presidential, congressional, and gubernatorial levels. As technology now allows candidates to announce their candidacies online, raise money through web fundraising, and mobilize supporters via smartphones, these increasingly mobile and integrated campaigns face the growing influence of outside interests. In the thoroughly updated Third Edition, author Richard J. Semiatin looks at the 2016 election and focuses on the growth of super PACs, the role of big data in campaigns, voter identification laws and their impact, and the ways in which technology increases the volume of information that campaigns use.

Life Ascending Springer Nature

This volume presents a diverse collection of methodologies used to study various problems at the protein sequence and structure level. The chapters in this book look at issues ranging from broad concepts like protein space to specifics like antibody modeling. Topics include point mutations, gene duplication, de novo emergence of new genes, pairwise correlated mutations, ancestral protein reconstruction, homology modelling, protein stability and dynamics, and protein-protein interactions. The book also covers a wide range of computational approaches, including sequence and structure alignments, phylogenies, physics-based and mathematical approaches, machine learning, and more. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and prerequisites, step-by-step, readily reproducible computational protocols (using command line or graphical user interfaces, sometimes including computer code), and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and authoritative, *Computational Methods in Protein Evolution* is a valuable resource that offers useful workflows and techniques that will help both novice and expert researchers working with proteins computationally.

Evolution and Development of Fishes Harvard University Press

These contributions, written by the foremost international researchers and practitioners of Genetic Programming (GP), explore the synergy between theoretical and empirical results on real-world problems, producing a comprehensive view of the state of the art in GP. In this year's edition, the topics covered include many of the most important issues and research questions in the field, such as: opportune application domains for GP-based methods, game playing and co-evolutionary search, symbolic regression and efficient learning strategies, encodings and representations for GP, schema theorems, and new selection mechanisms. The volume includes several chapters on best practices and lessons learned from hands-on experience. Readers will discover large-scale, real-world applications of GP to a variety of problem domains via in-depth presentations of the latest and most significant results.

Cutting Edge CQ Press

Religious capacity is a highly elaborate, neurocognitive human trait that has a solid evolutionary foundation. This book uses a multidisciplinary approach to describe millions of years of biological innovations that eventually give rise to the modern trait and its varied expression in humanity's many religions. The authors present a scientific model and a central thesis that the brain organs, networks, and capacities that allowed humans to survive physically also gave our species the ability to create theologies, find sustenance in religious practice, and use religion to support the social group. Yet, the trait of religious capacity remains non-obligatory, like reading and mathematics. The individual can choose not to use it. The approach relies on research findings in nine disciplines, including the work of countless neuroscientists, paleoneurologists, archaeologists, cognitive scientists, and psychologists. This is a cutting-edge examination of the evolutionary origins of humanity's interaction with the supernatural. It will be of keen interest to academics working in Religious Studies, Neuroscience, Cognitive Science, Anthropology, Evolutionary Biology, and Psychology.

Dynamics of the Earth System: Evolution, Processes and Interactions Princeton University Press

This book highlights Indian scientific endeavours and contributions to answering the vast multitude of questions posed by our changing environment. The International Ocean Discovery Program (IODP) explores Earth's history and dynamics using deep ocean drilling platforms to recover the data locked inside seafloor sediments and rocks. Since 2009, Indian scientists have been actively engaged in these expeditions. Scientists from various Earth Science disciplines have seized this opportunity to offer their expertise in order to help unravel the mysteries of the past - by delving deep into the valuable sedimentary records of our oceans. This book presents a compilation of some of their most important findings to motivate and encourage young minds for their enhanced role in the cutting edge science of ocean drilling.

Evolution Oxford University Press, USA

Examines the history of life on Earth and traces the course of human evolution.

Evolution's Bite Yale University Press

Charles Fox and Jason Wolf have brought together leading researchers to produce a cutting-edge primer introducing readers to the major concepts in modern evolutionary genetics. This book spans the continuum of scale, from studies of DNA sequence evolution through proteins and development to multivariate phenotypic evolution, and the continuum of time, from ancient events that lead to

current species diversity to the rapid evolution seen over relatively short time scales in experimental evolution studies. Chapters are accessible to an audience lacking extensive background in evolutionary genetics but also current and in-depth enough to be of value to established researchers in evolution biology.

Mind the Gap Princeton University Press

This book offers a novel defence of a highly contested philosophical position: biological natural kind essentialism. This theory is routinely and explicitly rejected for its purported inability to be explicated in the context of contemporary biological science, and its supposed incompatibility with the process and progress of evolution by natural selection. Christopher J. Austin challenges these objections, and in conjunction with contemporary scientific advancements within the field of evolutionary-developmental biology, the book utilises a contemporary neo-Aristotelian metaphysics of "dispositional properties", or causal powers, to provide a theory of essentialism centred on the developmental architecture of organisms and its role in the evolutionary process. By defending a novel theory of Aristotelian biological natural kind essentialism, *Essence in the Age of Evolution* represents the fresh and exciting union of cutting-edge philosophical insight and scientific knowledge.

An Evolutionary Theory of Economic Change Crown

Handbook of Neuroevolution Through Erlang presents both the theory behind, and the methodology of, developing a neuroevolutionary-based computational intelligence system using Erlang. With a foreword written by Joe Armstrong, this handbook offers an extensive tutorial for creating a state of the art Topology and Weight Evolving Artificial Neural Network (TWEANN) platform. In a step-by-step format, the reader is guided from a single simulated neuron to a complete system. By following these steps, the reader will be able to use novel technology to build a TWEANN system, which can be applied to Artificial Life simulation, and Forex trading. Because of Erlang's architecture, it perfectly matches that of evolutionary and neurocomputational systems. As a programming language, it is a concurrent, message passing paradigm which allows the developers to make full use of the multi-core & multi-cpu systems. *Handbook of Neuroevolution Through Erlang* explains how to leverage Erlang's features in the field of machine learning, and the system's real world applications, ranging from algorithmic financial trading to artificial life and robotics.

The Emergence of Religion in Human Evolution Island Press

This book contains the most sustained and serious attack on mainstream, neoclassical economics in more than forty years. Nelson and Winter focus their critique on the basic question of how firms and industries change overtime. They marshal significant objections to the fundamental neoclassical assumptions of profit maximization and market equilibrium, which they find ineffective in the analysis of technological innovation and the dynamics of competition among firms. To replace these assumptions, they borrow from biology the concept of natural selection to construct a precise and detailed evolutionary theory of business behavior. They grant that firms are motivated by profit and engage in search for ways of improving profits, but they do not consider them to be profit maximizing. Likewise, they emphasize the tendency for the more profitable firms to drive the less profitable ones out of business, but they do not focus their analysis on hypothetical states of industry equilibrium. The results of their new paradigm and analytical framework are impressive. Not only have they been able to develop more coherent and powerful models of competitive firm dynamics under conditions of growth and technological change, but their approach is compatible with findings in psychology and other social sciences. Finally, their work has important implications for welfare economics and for government policy toward industry.

Methods and Finance Cambridge University Press

The author of Darwin's Black Box draws on new findings in genetics to pose an argument for intelligent design that refutes Darwinian beliefs about evolution while offering alternative analyses of such factors as disease, random mutations, and the human struggle for survival. Reprint. 40,000 first printing.

Mesh Generation and Adaptation Springer Nature

Taking us behind the scenes with today's foremost researchers and pioneers, bestselling author Joel Garreau shows that we are at a turning point in history. At this moment we are engineering the next stage of human evolution. Through advances in genetic, robotic, information, and nanotechnologies, we are altering our minds, our memories, our metabolisms, our personalities, our progeny—and perhaps our very souls. *Radical Evolution* reveals that the powers of our comic-book superheroes already exist, or are in development in hospitals, labs, and research facilities around the country—from the revved-up reflexes and speed of Spider-Man and Superman, to the enhanced mental acuity and memory capabilities of an advanced species. Over the next fifteen years, Garreau makes clear in this New York Times Book Club premiere selection, these enhancements will become part of our everyday lives. Where will they lead us? To heaven—where technology's promise to make us smarter, vanquish illness, and extend our lives is the answer to our prayers? Or, as some argue, to hell—where unrestrained technology brings about the ultimate destruction of our species?

Evolution Of Psychotherapy..... Oxford University Press

In *The Evolution of Mind*, outstanding figures on the cutting edge of evolutionary psychology follow clues provided by current neuroscientific evidence to illuminate many puzzling questions of human cognitive evolution. With contributions from psychologists, ethologists, anthropologists, and philosophers, the book offers a broad range of approaches to explore the mysteries of the mind's evolution - from investigating the biological functions of human cognition to drawing comparisons between human and animal cognitive abilities.

The Evolution of Computer Technology Psychology Press

The developments in mesh generation are usually driven by the needs of new applications and/or novel algorithms. The last decade has seen a renewed interest in mesh generation and adaptation by the computational engineering community, due to the challenges introduced by complex industrial problems. Another common challenge is the need to handle complex geometries. Nowadays, it is becoming obvious that geometry should be persistent throughout the whole simulation process. Several methodologies that can carry the geometric information throughout the simulation stage are available, but due to the novelty of these methods, the generation of suitable meshes for these techniques is still the main obstacle for the industrial uptake of this technology. This book will cover different aspects of mesh generation and adaptation, with particular emphasis on cutting-edge mesh generation techniques for advanced discretisation methods and complex geometries.

Holism and Evolution Springer Science & Business Media

Today it seems that computers occupy every single space in life. This book traces the evolution of computers from the humble beginnings as simple calculators up to the modern day jack-of-all trades devices like the iPhone. Readers will learn about how computers evolved from humongous military-issue refrigerators to the spiffy, delicate, and intriguing devices that many modern people feel they can't live without anymore. Readers will also discover the historical significance of computers, and their pivotal roles in World War II, the Space Race, and the emergence of modern Western powers.

NERDS: National Espionage, Rescue, and Defense Society Profile Books

From the star of True Blood and Magic Mike, Joe Manganiello, comes the cutting edge guide for achieving the perfect body. Joe Manganiello has become known around the world for his incredible physique. Now, from the man that director Steven Soderbergh called 'walking CGI', comes the cutting edge guide to achieving the perfect body and raising your overall quality of life. In *Evolution*, Manganiello shares his lifetime of experience and research in terms of diet, cardio and anatomy, to bring you the only fitness book you'll ever need in order to look and feel your best. His memorable performance in the 2012 film Magic Mike, catapulted him and his fine, firm physique to the top of the list of Hollywood's most desired male actors. With a build that men envy and women adore, Joe Manganiello is more than qualified to write the end-all-guide to sculpting the perfect body. Featuring black-and-white photographs throughout, and Manganiello's step-by-step workout routine that combines weights, intense cardio and a high protein diet, this book reveals exactly how to get the body of one of Hollywood's hottest stars. Promising to turn any Average Joe into a Joe Manganiello!

Handbook of Neuroevolution Through Erlang Springer Science & Business Media

With the unifying theme of abstract evolutionary equations, both linear and nonlinear, in a complex environment, the book presents a multidisciplinary blend of topics, spanning the fields of theoretical and applied functional analysis, partial differential equations, probability theory and numerical analysis applied to various models coming from theoretical physics, biology, engineering and complexity theory. Truly unique features of the book are: the first simultaneous presentation of two

complementary approaches to fragmentation and coagulation problems, by weak compactness methods and by using semigroup techniques, comprehensive exposition of probabilistic methods of analysis of long term dynamics of dynamical systems, semigroup analysis of biological problems and cutting edge pattern formation theory. The book will appeal to postgraduate students and researchers specializing in applications of mathematics to problems arising in natural sciences and engineering.

Evolutionary Equations with Applications in Natural Sciences John Wiley & Sons

In humanity's more than 100,000 year history, we have evolved from vulnerable creatures clawing sustenance from Earth to a sophisticated global society manipulating every inch of it. In short, we have become the dominant animal. Why, then, are we creating a world that threatens our own species? What can we do to change the current trajectory toward more climate change, increased famine, and epidemic disease? Renowned Stanford scientists Paul R. Ehrlich and Anne H. Ehrlich believe that intelligently addressing those questions depends on a clear understanding of how we evolved and how and why we're changing the planet in ways that darken our descendants' future. *The Dominant Animal* arms readers with that knowledge, tracing the interplay between environmental change and genetic and cultural evolution since the dawn of humanity. In lucid and engaging prose, they describe how *Homo sapiens* adapted to their surroundings, eventually developing the vibrant cultures, vast scientific knowledge, and technological wizardry we know today. But the Ehrlichs also explore the flip side of this triumphant story of innovation and conquest. As we clear forests to raise crops and build cities, lace the continents with highways, and create chemicals never before seen in nature, we may be undermining our own supremacy. The threats of environmental damage are clear from the daily headlines, but the outcome is far from destined. Humanity can again adapt—if we learn from our evolutionary past. Those lessons are crystallized in *The Dominant Animal*. Tackling the fundamental challenge of the human predicament, Paul and Anne Ehrlich offer a vivid and unique exploration of our origins, our evolution, and our future. *Encyclopedia of Evolutionary Psychological Science* The Rosen Publishing Group, Inc First published in 1987. Routledge is an imprint of Taylor & Francis, an informa company.