



Evolutionary Processes And Metaphors

Stefan Linquist



Evolutionary Processes And Metaphors:

Evolutionary Processes and Metaphors Mae-Wan Ho, Sidney W. Fox, 1988-06-03 Evolutionary Processes and Metaphors Edited by Mae Wan Ho Department of Biology The Open University UK Sidney W Fox Institute for Molecular and Cellular Evolution University of Miami USA The current evolutionary debate encompasses protobiotic chemistry at one extreme and human sociobiology at the other Meanwhile significant advances continue to be made in many scientific disciplines which have far reaching implications on our view of nature Although it is now generally felt that neo Darwinism at least in its orthodox form is no longer an adequate theory of evolution very few attempts have yet been made to articulate a coherent alternative out of the many voices of dissent The purpose of the present volume is two fold to work towards a new evolutionary synthesis which takes full account of contemporary knowledge in all disciplines and to examine explicitly the metaphorical basis of evolutionary theories old and new as this has a powerful impact on our humanistic perspectives which underpin all social and political actions We have brought together representatives of two groups of workers those who ultimately believe in working within a transformed neo Darwinism and others who advocate a more radical reorientation away from the orthodoxy Despite their fundamentally different affiliations they are nonetheless able to communicate on questions of evolutionary concepts and mechanisms and their wider relevance to science and society New insights are presented on major issues such as the physicochemical underpinnings of life processes the meaning of natural selection the nature of variation heredity and morphogenesis the integration of organism and environment the active role of the organism in evolution and the evolution of human society The new synthesis which is emerging is an integrated multilevel and multidisciplinary approach to evolution which accords not only with the state of present day knowledge but with our deepest experience of nature NASA Technical Memorandum ,1990 **Philosophy of Evolutionary Biology** Stefan Linquist, 2017-03-02 The impact of evolutionary theory on the philosophy of science has been no less profound than its impact on the science of biology itself Advances in this theory provide a rich set of examples for thinking about the nature of scientific explanation and the structure of science Many of the developments in our understanding of evolution resulted from contributions by both philosophers and biologists engaging over theoretical questions of mutual interest This volume traces some of the most influential exchanges in this field over the last few decades Focal topics include the nature of biological functions adaptationism as an explanatory and methodological doctrine the levels of selection debate the concepts of fitness and drift and the relationship of evolutionary to developmental biology **Publications of the Exobiology Program for 1988** ,1990 **The Environmental Uncanny** Brian A. Irwin, 2024-06-27 The Environmental Uncanny argues that the increasing destitution of our world is the result of a certain forgetfulness we have forgotten that the basis of our knowledge is not calculative reason but our participation in the natural world The modern built environment is exemplary of this forgetfulness and induces an uncanniness that can help us to understand the nature of our environmental crisis This book

offers a unique interdisciplinary perspective on the global environmental crisis Ranging from traditional phenomenology including substantial discussion of both Merleau Ponty and Heidegger to philosophy of biology to architectural and urban design theory to landscape photography it makes illuminating connections to paint a multifaceted picture Tracing the root causes of dwindling biodiversity deforestation and suburban sprawl we can find how might we mark the path back toward a mode of rich inhabitation in a contemporary age In charting out how it is that we are losing our world Irwin offers a thought as to how we might regain it

Evolution's Eye Susan Oyama, 2000-05-03 In recent decades Susan Oyama and her colleagues in the burgeoning field of developmental systems theory have rejected the determinism inherent in the nature nurture debate arguing that behavior cannot be reduced to distinct biological or environmental causes In *Evolution's Eye* Oyama elaborates on her pioneering work on developmental systems by spelling out that work's implications for the fields of evolutionary theory developmental and social psychology feminism and epistemology Her approach profoundly alters our understanding of the biological processes of development and evolution and the interrelationships between them While acknowledging that in an uncertain world it is easy to blame it on the genes Oyama claims that the renewed trend toward genetic determinism colors the way we think about everything from human evolution to sexual orientation and personal responsibility She presents instead a view that focuses on how a wide variety of developmental factors interact in the multileveled developmental systems that give rise to organisms Shifting attention away from genes and the environment as causes for behavior she convincingly shows the benefits that come from thinking about life processes in terms of developmental systems that produce sustain and change living beings over both developmental and evolutionary time Providing a genuine alternative to genetic and environmental determinism as well as to unsuccessful compromises with which others have tried to replace them *Evolution's Eye* will fascinate students and scholars who work in the fields of evolution psychology human biology and philosophy of science Feminists and others who seek a more complex view of human nature will find her work especially congenial

A General Theory of Competition Shelby D. Hunt, 1999-11-30 Hunt convincingly demonstrates that competition is not about dividing up limited resources but about creating more resources and thus competition is pro society This truly interdisciplinary book successfully develops a general theory of competition which is rich in explanatory breadth and depth Consequently executives and entrepreneurs management consultants public makers and scholars and students in economics law political science and business should read and study this book Robert F Lusch University of Oklahoma This book develops a new theory of competition This theory labeled resource advantage theory stems from no single research tradition but draws on several different traditions in economics management marketing and sociology In this ground breaking volume Shelby Hunt articulates R A theory uses the theory to explain and predict economic phenomena and shows how and why it explains and predicts such phenomena

The Origins of Human Potential Ken Richardson, 2002-09-26 Few scientific debates have been more protracted and intense than whether we are born with our

cognitive ability whether our environment moulds it or whether these two things interact to produce it **The Origins of Human Potential** offers a new insight into the arguments by showing that many of the assumptions on both sides are false Ken Richardson re examines evidence about the nature of genes in development the environment and the development of cognitive ability and the nature of cognitive ability itself Can it really be measured in an IQ test like height or weight Ken Richardson s human centred view describes the evolutionary context of our dynamic changeable environments and the creative individual at the heart of the debate It will be of great relevance to psychologists and education policy makers and should be read by all those with an interest in our children s future

The Major Metaphors of Evolution Salvatore J. Agosta, Daniel R. Brooks, 2020-08-29 This book presents a unified evolutionary framework based on three sets of metaphors that will help to consolidate discussions on evolutionary transitions Evolution is the unifying principle of life making identifying ways to apply evolutionary principles to tackle existence threatening crises such as climate change crucial A more cohesive evolutionary framework will further the discussions in this regard and also accelerate the process itself This book lays out a framework based on three dualistic classes of metaphors time space and conflict resolution Evolutionary transitions theory shows how metaphors can help us understand selective diversification as Darwin described with his tree of life Moreover the recently proposed Stockholm paradigm demonstrates how metaphors can help shed light on the emergence of complex ecosystems that Darwin highlighted with his tangled bank metaphor Taken together these ideas offer proactive measures for coping with existential crises for humanity such as climate change The book will appeal to biologists

philosophers and historians alike **Cycles of Contingency** Susan Oyama, Russell D. Gray, Paul E. Griffiths, 2003-01-24 The nature nurture debate is not dead Dichotomous views of development still underlie many fundamental debates in the biological and social sciences Developmental systems theory DST offers a new conceptual framework with which to resolve such debates DST views ontogeny as contingent cycles of interaction among a varied set of developmental resources no one of which controls the process These factors include DNA cellular and organismic structure and social and ecological interactions DST has excited interest from a wide range of researchers from molecular biologists to anthropologists because of its ability to integrate evolutionary theory and other disciplines without falling into traditional oppositions The book provides historical background to DST recent theoretical findings on the mechanisms of heredity applications of the DST framework to behavioral development implications of DST for the philosophy of biology and critical reactions to DST

Performing Metaphoric Creativity across Modes and Contexts Laura Hidalgo-Downing, Blanca Kraljevic Mujic, 2020-06-15 The creative potentiality of metaphor is one of the central themes in research on creativity The present volume offers a space for the interdisciplinary discussion of the relationship between metaphor and creativity by focusing on re contextualization across modes and socio cultural contexts and on the performative dimension of creative discourse practices The volume brings together insights from Conceptual Metaphor Theory Critical Discourse approaches to metaphor

and Multimodal discourse analysis Creativity as a process is explored in how it emerges in the flow of experience when talking about or reacting to creative acts such as dance painting or music and in subjects responses to advertisements in experimental studies Creativity as product is explored by analyzing the choice occurrence and patterning of creative metaphors in various types of multimodal and multisensorial discourses such as political cartoons satire films children s storybooks music and songs videos scientific discourse architectural reviews and the performance of classical Indian rasa

Sociobiology and Bioeconomics Peter Koslowski,2013-03-09 The theory of evolution and Neo Darwinian biological theory extend their analysis in sociobiology from the life sciences and the animal societies to human societies Sociobiology as a unifying theory of the social interaction within and between species has led to an integration of economic analysis into biology The economy of nature has become the subject of bioeconomics which in turn transferred biological analysis to the human economy Evolution competition selection and cooperation are phenomena common to the economy of nature and human economy The inclusion of economic and cultural theory in evolution theory raises the question whether the Neo Darwinian Synthesis with its exclusive concern with somatic heredity is able to incorporate developmental systems of the human economy and of cultural heredity A new synthesis of the natural and the social sciences is in the making A Cognitive Semantics Approach to Darwin's Theory of Evolution Dr. Anna Drogoz,2019 DARWIN S THEORY OF EVOLUTION ranks among the most influential of modern scientific theories Applying the methodology of COGNITIVE SEMANTICS this study investigates how metaphors based on domains of JOURNEY STRUGGLE TREE and HUMAN AGENCY serve to conceptualize key concepts of Darwin s theory such as evolutionary change natural selection and relationships among organisms At the outset the author identifies original metaphors in *The Origin of Species* to turn to their realizations in modern discourse on evolution in later chapters Thus the study uncovers how metaphors contribute to structuring the theory by expressing it in a coherent and attractive way and how they provide mental tools for reasoning As the first comprehensive study of conceptual metaphors that underlie Darwin s theory and affect the way we talk and think about evolution it may be of interest not only to linguists and evolutionary biologists but also to anyone interested in the interconnection between thought and language *Explaining Creativity* Robert Keith Sawyer,Danah Henriksen,2024 Genius Invention Talent And of course creativity These words describe the highest levels of human performance When we re engaged in the act of being creative we feel we are performing at the peak of our abilities Creative works give us insight and enrich our lives Creativity is part of what makes us human Our nearest relatives chimpanzees and other primates are often quite intelligent but never reach these high levels of performance **Metaphors for Environmental Sustainability** Brendon Larson,2011-06-07 Scientists turn to metaphors to formulate and explain scientific concepts but an ill considered metaphor can lead to social misunderstandings and counterproductive policies Brendon Larson observes in this stimulating book He explores how metaphors can entangle scientific facts with social values and warns that particularly in the environmental realm incautious

metaphors can reinforce prevailing values that are inconsistent with desirable sustainability outcomes Metaphors for Environmental Sustainability draws on four case studies two from nineteenth century evolutionary science and two from contemporary biodiversity science to reveal how metaphors may shape the possibility of sustainability Arguing that scientists must assume greater responsibility for their metaphors and that the rest of us must become more critically aware of them the author urges more critical reflection on the social dimensions and implications of metaphors while offering practical suggestions for choosing among alternative scientific metaphors

Companion Encyclopedia of Anthropology Tim Ingold, 2002-09-11 Provides a comprehensive survey of contemporary thinking in biological social and cultural anthropology and establishes the interconnections between these three fields Useful cross references within the text with full biographical references and suggestions for further reading Carefully illustrated with line drawings and photographs The Companion Encyclopedia of Anthropology is a welcome addition to the reference literature Bringing together authoritative incisive and scrupulously edited contributions from some three dozen authors The book achieves an impressive breadth of coverage of specialist areas Times Higher Educational Supplement Recommended for all anthropology collections especially those in academic libraries Library Journal This is a marvellous book and I am very happy to recommend it Reference Reviews

Let Them Eat Data C. A. Bowers, 2011-03-15 Do computers foster cultural diversity Ecological sustainability In our age of high tech euphoria we seem content to leave tough questions like these to the experts That dangerous inclination is at the heart of this important examination of the commercial and educational trends that have left us so uncritically optimistic about global computing Contrary to the attitudes that have been marketed and taught to us says C A Bowers the fact is that computers operate on a set of Western cultural assumptions and a market economy that drives consumption Our indoctrination includes the view of global computing innovations as inevitable and on a par with social progress a perspective dismayingly suggestive of the mindset that engendered the vast cultural and ecological disruptions of the industrial revolution and world colonialism In *Let Them Eat Data* Bowers discusses important issues that have fallen into the gap between our perceptions and the realities of global computing including the misuse of the theory of evolution to justify and legitimate the global spread of computers and the ecological and cultural implications of unmooring knowledge from its local contexts as it is digitized commodified and packaged for global consumption He also suggests ways that educators can help us think more critically about technology *Let Them Eat Data* is essential reading if we are to begin democratizing technological decisions conserving true cultural diversity and intergenerational forms of knowledge and living within the limits and possibilities of the earth's natural systems

Analysis of Logic and Sanity Andreas Sofroniou, 2017 Through the ages man has been pre occupied with logic sanity and moral standards probably more than other concepts Societies through their various stages of evolution varied the theme with distinct differences in their demands on standards dogmas and regional culture These variations of morality place a big demand on science Individuals from different cultures social groups of known and unknown social norms

may occupy the practitioner's couch the significance of this being the understanding demanded of the therapist People live in groups and humans choose to live in groups simply for what they can get out of society Those who choose to live in solitude become recluses in monasteries and nunneries or become thinkers in isolation high up in mountains The causation theory regarding the logic and sanity analysis in this book includes the seemingly necessary connection between one event the cause and the other the effect Observing Dark Innovation Ryan T. MacNeil, 2024-04-23 Available open access digitally under CC BY NC ND licence Why does scholarship on innovation fixate on certain classes of technology Could our research tools and techniques be concealing as much as they reveal Ryan T MacNeil shows how the common instrumentalities of innovation research carry neoliberal market biases He calls for critical scholars to examine how we observe and understand innovation offering ways forward to deconstruct and reform disciplinary conventions This book makes a valuable contribution to critical management and science and technology studies by shedding light on the dark matter of innovation This will be an important resource for scholars and practitioners interested in disruptive ideas about innovation The Role of Metaphor in Art Therapy Bruce L. Moon, 2007 The studio based approach where artists and art therapists work side by side making art exploring issues of transition and listening metaphorically is examined In addition the relevance of esthetics and empathy in looking at client artwork without judgment and responding to the client through art making is discussed This excellent resource describes how to look at listen to and respond to the metaphors that artworks divulge BOOK JACKET

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