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ARTIFICIAL ETHOLOGY

Owen Holland and David McFarland



Artificial Ethology

**Achim Gottscheber, Stefan
Enderle, David Obdrzalek**



Artificial Ethology:

Artificial Ethology Owen Holland, David McFarland, 2001 Modelling and computer simulations combined with empirical research are the traditional tools for the study of animal behavior This exciting new book sets out to show how artificial ethology or experimentation with animal like robots can add a new dimension to our understanding of behavioral questions Thematic chapters scrutinizing major areas of research in animal behavior follow introductory chapters to modelling and robotics Each thematic exploration is illustrated with case studies written by leading researchers in the field From robotic lobsters to robotic monkeys each case study brings the text to life and gives a detailed description of a problem approach and robot application This is a comprehensive introduction to the application of robotics in animal behavior and physiology

Artificial Cognition Systems Loula, Angelo, Gudwin, Ricardo, Queiroz, João, 2006-07-31 This book presents recent research efforts in Artificial Intelligence about building artificial systems capable of performing cognitive tasks A fundamental issue addressed in this book is if these cognitive processes can have any meaningfulness to the artificial system being built Provided by publisher

Ay's Neuroanatomy of C. Elegans for Computation Theodore B. Achacoso, William S. Yamamoto, 2022-04-19 First published in 1992 AY s Neuroanatomy of C elegans for Computation provides the neural circuitry database of the nematode *Caenorhabditis elegans* both in printed form and in ASCII files on 5 25 inch diskettes for use on IBM and compatible personal computers Macintosh computers and higher level machines Tables of connections among neuron classes synapses among individual neurons gap junctions among neurons worm cells and their embryonic origin and synthetically derived neuromuscular connections are presented together with the references from which the data were compiled and edited Sample data files and source codes of FORTRAN and BASIC programs are provided to illustrate the use of mathematical tools for any researcher or student interested in examining a natural neural network and discovering what makes it tick

The Cognitive Animal Marc Bekoff, Colin Allen, Gordon M. Burghardt, 2002-06-21 The fifty seven original essays in this book provide a comprehensive overview of the interdisciplinary field of animal cognition The contributors include cognitive ethologists behavioral ecologists experimental and developmental psychologists behaviorists philosophers neuroscientists computer scientists and modelers field biologists and others The diversity of approaches is both philosophical and methodological with contributors demonstrating various degrees of acceptance or disdain for such terms as consciousness and varying degrees of concern for laboratory experimentation versus naturalistic research In addition to primates particularly the nonhuman great apes the animals discussed include antelopes bees dogs dolphins earthworms fish hyenas parrots prairie dogs rats ravens sea lions snakes spiders and squirrels The topics include but are not limited to definitions of cognition the role of anecdotes in the study of animal cognition anthropomorphism attention perception learning memory thinking consciousness intentionality communication planning play aggression dominance predation recognition assessment of self and others social knowledge empathy conflict resolution reproduction parent young

interactions and caregiving ecology evolution kin selection and neuroethology *Artificial Life IV* Rodney Allen Brooks, Pattie Maes, 1994 This book brings together contributions to the Fourth Artificial Life Workshop held at the Massachusetts Institute of Technology in the summer of 1994 *Living with Robots* Paul Dumouchel, Luisa Damiano, 2017-11-06 From artificial intelligence to artificial empathy a timely and well written volume that addresses many contemporary and future moral questions Library Journal Today's robots engage with human beings in socially meaningful ways as therapists trainers mediators caregivers and companions Social robotics is grounded in artificial intelligence but the field's most probing questions explore the nature of the very real human emotions that social robots are designed to emulate Social roboticists conduct their inquiries out of necessity every robot they design incorporates and tests a number of hypotheses about human relationships Paul Dumouchel and Luisa Damiano show that as roboticists become adept at programming artificial empathy into their creations they are abandoning the conventional conception of human emotions as discrete private internal experiences Rather they are reconceiving emotions as a continuum between two actors who coordinate their affective behavior in real time Rethinking the role of sociability in emotion has also led the field of social robotics to interrogate a number of human ethical assumptions and to formulate a crucial political insight there are simply no universal human characteristics for social robots to emulate What we have instead is a plurality of actors human and nonhuman in noninterchangeable relationships Foreshadowing an inflection point in human evolution *Living with Robots* shows that for social robots to be effective they must be attentive to human uniqueness and exercise a degree of social autonomy More than mere automatons they must become social actors capable of modifying the rules that govern their interplay with humans A detailed tour of the philosophy of artificial intelligence AI especially as it applies to robots intended to build social relationships with humanity If we are to build a robust appropriate ethical structure around the next generation of technical development some combination of deep learning artificial intelligence robotics and artificial empathy we need to understand that managing the impact of these technologies is far too important to be left to those who are enthusiastically engaged in producing them Times Higher Education Fourth European Conference on Artificial Life Phil Husbands, Inman Harvey, 1997 Topics include self organization the origins of life natural selection evolutionary computation neural networks communication artificial worlds software agents philosophical issues in artificial life ethical problems and learning and development Researchers in artificial life attempt to use the physical representation of lifelike phenomena to understand the organizational principles underlying the dynamics of living systems The goal of the 1997 European Conference on Artificial Life is to provoke new understandings of the relationships between the natural and the artificial Topics include self organization the origins of life natural selection evolutionary computation neural networks communication artificial worlds software agents philosophical issues in artificial life ethical problems and learning and development
Advances in Ethology , 1987 **Artificial Life** Christopher G. Langton, 1997 This book brings together a series of

overview articles that appeared in the first three issues of the groundbreaking journal *Artificial Life* *The Technocene*

Hermínio Martins, 2018-12-15 Hermínio Martins was one of the key pioneers of the sociology of science and technology. He published extensively in Portuguese and was recognized for his academic contributions with an honorary doctorate at Lisbon 2006 and two Portuguese Medals of Honour. Following his retirement from the University of Oxford, he wrote prolifically in English on a wide range of topics that examined the ethical and societal consequences of the commoditization of the human body and mind. These essays are deep philosophical reflections on our contemporary world and draw extensively and eclectically upon a wide range of theoretical influences including continental philosophy, history and psychology, to name but a few disciplines. *The Technocene* is a selection of some of these insightful essays made available to a global audience for the first time.

Artificial Life VI Christoph Adami, 1998 Since their inception in 1987, the Artificial Life meetings have grown from small workshops to truly international conferences reflecting the fields increasing appeal to researchers in all areas of science.

Advances in Artificial Life Fernando Almeida e Costa, 2007-09-04 This book constitutes the refereed proceedings of the 9th European Conference on Artificial Life (ECAL 2007) held in Lisbon, Portugal. The 125 revised full papers cover morphogenesis and development, robotics and autonomous agents, evolutionary computation and theory, cellular automata, models of biological systems and their applications, ant colony and swarm systems, evolution of communication, simulation of social interactions, self-replication, artificial chemistry.

Animal Communication Theory Ulrich Stegmann, 2013-05-02 A valuable overview and analysis of foundational concepts in animal behaviour studies including information, meaning, communication signals and cues. Its comprehensive introduction and numerous illustrations will make it accessible to students and researchers from a wide variety of academic backgrounds ranging from ethology and evolutionary biology to philosophy of mind.

The Structure of Learning R. Allen Gardner, Beatrix Gardner, 2013-06-17 Drawing together research and theory in ethology and psychology, this book offers a clear and provocative account of the ways in which living organisms learn. Throughout, the authors' focus is on the importance of operational definition. In lively prose describing experiments in enough depth to involve readers in the drama of experimental method, they recount the history of scientists' attempts to answer basic questions and show how one study builds on another. Although they present the major traditional positions, they demand that readers examine actual evidence, recognize weaknesses and consider alternatives. This critical process leads to the delineation of a bottom-up, feed-forward model in contrast to the traditional top-down, feed-backward one. Recent research in robotics and fuzzy logic suggests ways in which artificial as well as living systems pursue bottom-up, feed-forward, ethological solutions to practical problems. The authors' extended discussion of their exciting work teaching sign language to chimpanzees vividly illustrates the application of the basic principles of learning elucidated in the book.

Affective Computing and Interaction: Psychological, Cognitive and Neuroscientific Perspectives Gökay, Didem, Yildirim, Gülşen, 2010-10-31 Since interactions may occur between animals, humans or computational agents, an

interdisciplinary approach which investigates foundations of affective communication in a variety of platforms is indispensable In the field of affective computing a collection of research merging decades of research on emotions in psychology cognition and neuroscience will inspire creative future research projects and contribute to the prosperity of this emerging field Affective Computing and Interaction Psychological Cognitive and Neuroscientific Perspectives examines the current state and the future prospects of affect in computing within the context of interactions Uniting several aspects of affective interactions and topics in affective computing this reference reviews basic foundations of emotions furthers an understanding of the contribution of affect to our lives and concludes by revealing current trends and promising technologies for reducing the emotional gap between humans and machines all within the context of interactions

The Evolutionary Emergence of Language Chris Knight, Michael Studdert-Kennedy, James Hurford, 2000-11-20 Language has no counterpart in the animal world Unique to Homo sapiens it appears inseparable from human nature But how when and why did it emerge The contributors to this volume linguists anthropologists cognitive scientists and others adopt a modern Darwinian perspective which offers a bold synthesis of the human and natural sciences As a feature of human social intelligence language evolution is driven by biologically anomalous levels of social cooperation Phonetic competence correspondingly reflects social pressures for vocal imitation learning and other forms of social transmission Distinctively human social and cultural strategies gave rise to the complex syntactical structure of speech This book presenting language as a remarkable social adaptation testifies to the growing influence of evolutionary thinking in contemporary linguistics It will be welcomed by all those interested in human evolution evolutionary psychology linguistic anthropology and general linguistics

Biological Intelligence for Biomimetic Robots Joseph Ayers, 2023-06-06 An introduction to how neuroethology can inform the development of robots controlled by synaptic networks instead of algorithms from a pioneer in biorobotics The trait most fundamental to the evolution of animals is the capability to adapt to novel circumstances in unpredictable environments Recent advances in biomimetics have made it feasible to construct robots modeled on such unsupervised autonomous behavior and animal models provide a library of existence proofs Filling an important gap in the field this introductory textbook illuminates how neurobiological principles can inform the development of robots that are controlled by synaptic networks as opposed to algorithms Joseph Ayers provides a comprehensive overview of the sensory and motor systems of a variety of model biological systems and shows how their behaviors may be implemented in artificial systems such as biomimetic robots Introduces the concept of biological intelligence as applied to robots building a strategy for autonomy based on the neuroethology of simple animal models Provides a mechanistic physiological framework for the control of innate behavior Illustrates how biomimetic vehicles can be operated in the field persistently and adaptively Developed by a pioneer in biorobotics with decades of teaching experience Proven in the classroom Suitable for professionals and researchers as well as undergraduate and graduate students in cognitive science and computer science

Guilty

Robots, Happy Dogs David McFarland, 2009-03-12 Do animals have thoughts and feelings Could robots have minds like our own Can we ever know or will the answer be forever out of our reach David McFarland explores the answers to these questions drawing not only on the philosophy of mind but also on developments in artificial intelligence robots and the science of animal behaviour *Genetic and Evolutionary Computation — GECCO 2004* Kalyanmoy Deb, Riccardo Poli, Wolfgang Banzhaf, Hans-Georg Beyer, Edmund Burke, Paul Darwen, Dipankar Dasgupta, Dario Floreano, James Foster, Mark Harman, Owen Holland, Pier Luca Lanzi, Lee Spector, Andrea G. B. Tettamanzi, Dirk Thierens, Andy Tyrrell, 2004-10-12 The two volume set LNCS 3102 3103 constitutes the refereed proceedings of the Genetic and Evolutionary Computation Conference GECCO 2004 held in Seattle WA USA in June 2004 The 230 revised full papers and 104 poster papers presented were carefully reviewed and selected from 460 submissions The papers are organized in topical sections on artificial life adaptive behavior agents and ant colony optimization artificial immune systems biological applications coevolution evolutionary robotics evolution strategies and evolutionary programming evolvable hardware genetic algorithms genetic programming learning classifier systems real world applications and search based software engineering **Research and Education in Robotics -- EUROBOT 2008** Achim Gottscheber, Stefan Enderle, David Obdrzalek, 2009-09-29 This volume constitutes the refereed proceedings of the International Conference on Research and Education in Robotics EUROBOT 2008 held in Heidelberg Germany in May 2008 The EUROBOT Conference 2008 was accompanied by the international amateur robotics contest EUROBOTopen final edition 2008 The 18 revised full papers presented were carefully reviewed and selected from the 33 papers which had built the main program of the conference A fundamental aspect of EUROBOT is the promotion of sciences and technology among young students and researchers The theme for 2008 was Mission to Mars This resulted in interesting robots as well as interesting papers for this volume

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