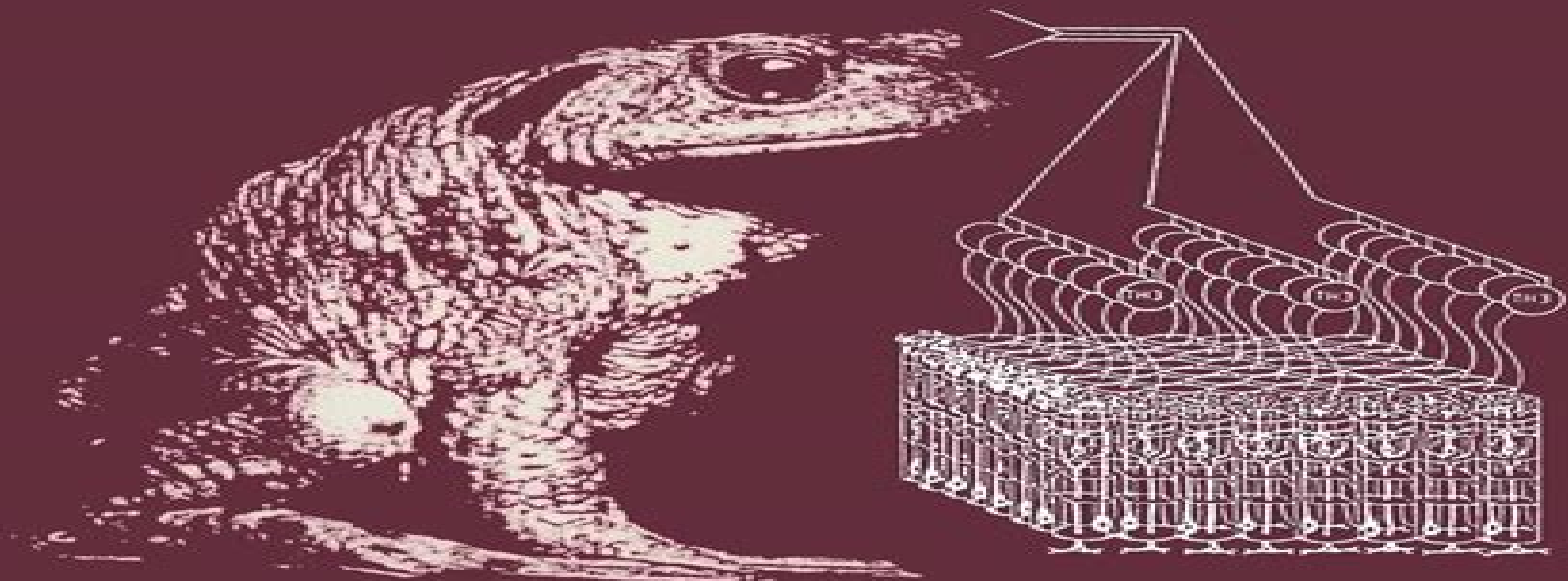


Visuomotor Coordination

Amphibians, Comparisons,
Models, and Robots



Edited by Jörg-Peter Ewert and Michael A. Arbib

Visuomotor Coordination Amphibians Comparisons Models And Robots

Michael A. Arbib



Visuomotor Coordination Amphibians Comparisons Models And Robots:

Visuomotor Coordination Jorg Peter Ewert, Michael A. Arbib, 2013-06-29 Various brain areas of mammals can phylogenetically be traced back to homologous structures in amphibians. The amphibian brain may thus be regarded as a kind of microcosm of the highly complex primate brain as far as certain homologous structures, sensory functions, and assigned ballistic pre-planned and pre-programmed motor and behavioral processes are concerned. A variety of fundamental operations that underlie perception, cognition, sensorimotor transformation, and its modulation appear to proceed in primate brain in a way understandable in terms of basic principles which can be investigated more easily by experiments in amphibians. We have learned that progress in the quantitative description and evaluation of these principles can be obtained with guidance from theory. Modeling supported by simulation is a process of transforming abstract theory derived from data into testable structures. Where empirical data are lacking or are difficult to obtain because of structural constraints, the modeler makes assumptions and approximations that by themselves are a source of hypotheses. If a neural model is then tied to empirical data, it can be used to predict results and hence again to become subject to experimental tests whose resulting data in turn will lead to further improvements of the model. By means of our present models of visuomotor coordination and its modulation by state-dependent inputs, we are just beginning to simulate and analyze how external information is represented within different brain structures and how these structures use these operations to control adaptive behavior.

Visual Structures and Integrated Functions Michael A. Arbib, Jörg-Peter Ewert, 2012-12-06 This volume integrates theory and experiment to place the study of vision within the context of the action systems which use visual information. This theme is developed by stressing a) The importance of situating any part of the brain in the context of its interactions with other parts of the brain in subserving animal behavior. The title of this volume emphasizes that visual function is to be viewed in the context of the integrated functions of the organism. b) Both the intrinsic interest of frog and toad as animals in which to study the neural mechanisms of visuomotor coordination and the importance of comparative studies with other organisms so that we may learn from an analysis of both similarities and differences. The present volume thus supplements our studies of frog and toad with papers on salamander, bird, and reptile, turtle, rat, gerbil, rabbit, and monkey. c) Perhaps most distinctively, the interaction between theory and experiment. **Current Catalog** National Library of Medicine (U.S.), 1992 **Advances in**

Metabolic Mapping Techniques for Brain Imaging of Behavioral and Learning Functions Francisco

Gonzalez-Lima, Th. Finkenstädt, Henning Scheich, 2012-12-06 In recent years, revolutionary technical advances have permitted neuroscientists to map the functioning of the brain in exquisite detail. Of interest are the new techniques that visually display cell energy metabolism, which is coupled to functional brain activity in behaving animals. This is the first book dealing with the application of 2-deoxyglucose and related metabolic mapping techniques for brain imaging of behavioral and learning functions. Quantitative autoradiographic techniques based on the use of exogenous markers include radiolabeled glucose and

its analogs especially 2 deoxyglucose and fluorodeoxyglucose Other mapping techniques are based on the histochemical staining of endogenous metabolic markers such as cytochrome oxidase as well as immunohistochemistry for expression of c fos genes In spite of the great potential capabilities of the new imaging techniques relatively few neuroscientists are using this approach to study brain functions related to behavior There is a need to review state of the art applications of these methods in behavioral neuroscience and to formulate recommendations for future research in this area This book is intended to fulfill these needs by bringing together leading neuroscientists using metabolic mapping approaches to elucidate brain mechanisms of behavior Discussions are not limited to one animal species but they cover a broad range of vertebrates with unique behavioral capabilities

Dynamic Interactions in Neural Networks: Models and Data Michael A. Arbib, 1989 The study of neural networks is enjoying a great renaissance both in computational neuroscience the development of information processing models of living brains and in neural computing the use of neurally inspired concepts in the construction of intelligent machines Thus the title of this volume has two interpretations It presents models and data on the dynamic interactions occurring in the brain and it exhibits the dynamic interactions between research in computational neuroscience and in neural computing as scientists seek to find common principles to guide the understanding of the living brain and the design of artificial neural networks This collection of contributions presents the current state of research future trends and open problems in an exciting field of today's science

Computational Theories of Interaction and Agency Philip Agre, Stanley J. Rosenschein, 1996 Over time the field of artificial intelligence has developed an agent perspective expanding its focus from thought to action from search spaces to physical environments and from problem solving to long term activity Originally published as a special double volume of the journal *Artificial Intelligence* this book brings together fundamental work by the top researchers in artificial intelligence neural networks computer science robotics and cognitive science on the themes of interaction and agency It identifies recurring themes and outlines a methodology of the concept of agency The seventeen contributions cover the construction of principled characterizations of interactions between agents and their environments as well as the use of these characterizations to guide analysis of existing agents and the synthesis of artificial agents

Artificial Intelligence series Special Issues of Artificial Intelligence

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1992

Biologically Inspired Intelligent Robots Yoseph Bar-Cohen, Cynthia L. Breazeal, 2003 The multidisciplinary issues involved in the development of biologically inspired intelligent robots include materials actuators sensors structures functionality control intelligence and autonomy This book reviews various aspects ranging from the biological model to the vision for the future

The Development of Timing Control and Temporal Organization in Coordinated Action J. Fagard, P.H. Wolff, 1991-09-30 This volume examines the development of timing in coordinated action from several different ontogenetic perspectives Some chapters emphasize the qualitative changes in manifest motor behavior during the early growth years and examine the relation between temporal characteristics of pre and

perinatal movements and goal directed actions with qualitatively different rules of temporal organization Other contributors stress the developmentally invariant timing characteristics of species typical and perhaps genetically programmed motor patterns of nonhuman organisms Also examined is the molecular machinery that generates circumscribed motor patterns with stable temporal characteristics as well as the reversible influences of peripheral feedback on and the interactions among discrete pattern generators Despite their basic theoretical differences both formulations imply the same generic hypothesis that the temporal characteristics of manifest movement or action are controlled by central agencies acting on the peripheral skeletal muscular system in a hierarchic top down mode

Intelligent Robots - Sensing, Modeling And Planning Bob Bolles, Horst Bunke, Hartmut Noltemeier, 1997-12-04 Rapid advances in sensors computers and algorithms continue to fuel dramatic improvements in intelligent robots In addition robot vehicles are starting to appear in a number of applications For example they have been installed in public settings to perform such tasks as delivering items in hospitals and cleaning floors in supermarkets recently two small robot vehicles were launched to explore Mars This book presents the latest advances in the principal fields that contribute to robotics It contains contributions written by leading experts addressing topics such as Path and Motion Planning Navigation and Sensing Vision and Object Recognition Environment Modeling and others

Mobile Robotics in Healthcare Nikos Katevas, 2001 The text presents the conclusions of four years joint work of 12 European laboratories on mobile robotics technology for healthcare services The book bridges the human factors and the demands of real life applications to the achievements of the robotics technology It is organized in 15 chapters analyzing topics covering all the related fields and including but not limited to user application requirements human machine interfacing mobile robots and mobile manipulators control architectures navigation and sensing strategies and robot smart building interconnection It also provides technical details and hints to the reader on how to address real life problems The book also performs a historical review and includes an overview of the contemporary developments worldwide

Governing Lethal Behavior in Autonomous Robots Ronald Arkin, 2009-05-27 Expounding on the results of the author's work with the US Army Research Office DARPA the Office of Naval Research and various defense industry contractors Governing Lethal Behavior in Autonomous Robots explores how to produce an artificial conscience in a new class of robots

humaneoids which are robots that can potentially perform more ethically **Behavior-based Robotics** Ronald C. Arkin, 1998 Foreword by Michael Arbib This introduction to the principles design and practice of intelligent behavior based autonomous robotic systems is the first true survey of this robotics field The author presents the tools and techniques central to the development of this class of systems in a clear and thorough manner Following a discussion of the relevant biological and psychological models of behavior he covers the use of knowledge and learning in autonomous robots behavior based and hybrid robot architectures modular perception robot colonies and future trends in robot intelligence The text throughout refers to actual implemented robots and includes many pictures and descriptions of hardware making it clear that these are

not abstract simulations but real machines capable of perception cognition and action **How the Brain Got Language**

Michael A. Arbib, 2012-04-11 Unlike any other species humans can learn and use language This book explains how the brain evolved to make language possible through what Michael Arbib calls the Mirror System Hypothesis Because of mirror neurons monkeys chimps and humans can learn by imitation but only complex imitation which humans exhibit is powerful enough to support the breakthrough to language This theory provides a path from the openness of manual gesture which we share with nonhuman primates through the complex imitation of manual skills pantomime protosign communication based on conventionalized manual gestures and finally to protospeech The theory explains why we humans are as capable of learning sign languages as we are of learning to speak This fascinating book shows how cultural evolution took over from biological evolution for the transition from protolanguage to fully fledged languages The author explains how the brain mechanisms that made the original emergence of languages possible perhaps 100 000 years ago are still operative today in the way children acquire language in the way that new sign languages have emerged in recent decades and in the historical processes of language change on a time scale from decades to centuries Though the subject is complex this book is highly readable providing all the necessary background in primatology neuroscience and linguistics to make the book accessible to a general audience Human and Nature Minding Automation

Spyros G. Tzafestas, 2009-12-02 Man is the best thing in the World Nature does nothing uselessly Aristotle There is a pleasure in the pathless woods There is rapture on the lonely shore There is society where none intrudes By the deep sea and music in its roar I love not Man the less but Nature more John Burroughs The basic purpose of development is to enlarge people s choices The objective of development is to create an enabling environment for people to enjoy long healthy and creative lives Mahbub ul Hag Founder of the Human Development Report Theaimofthisbookis toprovidea compiledset ofconcepts principles methods and issues used for studying designing and operating human minding and natu minding automation and industrial systems The depth of presentation is suf cient for the reader to understand the problems involved and the solution approaches and appreciate the need of human automation cooperative interaction and the portance of the efforts required for environment and ecosystem protection during any technological and development process in the society Humans and technology are living and have to live together in a sustainable society and nature Humans must not be viewed as components of automation and technology in the same way as machines Automation and technology must incorporate the humans needs and preferences and radiate beauty in all ways namely functionally technically and humanistically In overall automation and technology should create comfort and give pleasure Recent Advances in Mechatronics

Ryszard Jablonski, Mateusz Turkowski, Roman Szewczyk, 2007-09-19 Mechatronics is the synergistic combination of precision engineering electronics photonics and IT engineering The main research task for mechatronics is development and control of advanced hybrid systems covering all these fields and supported by interdisciplinary studies This book presents recent state of advances in mechatronics presented on the 7th

International Conference Mechatronics 2007 hosted at the Faculty of Mechatronics Warsaw University of Technology Poland The chosen topics of the conference included Nanotechnology Automatic Control and Robotics Biomedical Engineering Design Manufacturing and Testing of MEMS Metrology Photonics Mechatronic Products The selected papers give an overview of the state of the art and present new research results and prospects of the future development in this interdisciplinary field of mechatronic systems This book will provide up to date and useful knowledge for researchers and engineers involved in mechatronics and related fields

Neural Networks in Robotics George A. Bekey, Kenneth Y. Goldberg, 2012-12-06 Neural Networks in Robotics is the first book to present an integrated view of both the application of artificial neural networks to robot control and the neuromuscular models from which robots were created The behavior of biological systems provides both the inspiration and the challenge for robotics The goal is to build robots which can emulate the ability of living organisms to integrate perceptual inputs smoothly with motor responses even in the presence of novel stimuli and changes in the environment The ability of living systems to learn and to adapt provides the standard against which robotic systems are judged In order to emulate these abilities a number of investigators have attempted to create robot controllers which are modelled on known processes in the brain and musculo skeletal system Several of these models are described in this book On the other hand connectionist artificial neural network formulations are attractive for the computation of inverse kinematics and dynamics of robots because they can be trained for this purpose without explicit programming Some of the computational advantages and problems of this approach are also presented For any serious student of robotics Neural Networks in Robotics provides an indispensable reference to the work of major researchers in the field Similarly since robotics is an outstanding application area for artificial neural networks Neural Networks in Robotics is equally important to workers in connectionism and to students for sensor/monitor control in living systems

Complex Worlds from Simpler Nervous Systems Frederick R. Prete, 2004 Examining the surprisingly complex perceptual abilities of so called simpler animals including jumping spiders bees praying mantids butterflies cockroaches bladder grasshoppers crayfish mantis shrimps octopuses and toads

Neural Organization Michael A. Arbib, Peter R. Erdi, János Szentágothai, 1998 In Neural Organization Arbib Erdi and Szentágothai integrate structural functional and dynamical approaches to the interaction of brain models and neurobiological experiments Both structure based bottom up and function based top down models offer coherent concepts by which to evaluate the experimental data The goal of this book is to point out the advantages of a multidisciplinary multi-strategy approach to the brain Part I of Neural Organization provides a detailed introduction to each of the three areas of structure function and dynamics Structure refers to the anatomical aspects of the brain and the relations between different brain regions Function refers to skills and behaviors which are explained by means of functional schemas and biologically based neural networks Dynamics refers to the use of a mathematical framework to analyze the temporal change of neural activities and synaptic connectivities that underlie brain development and plasticity in terms of

both detailed single cell models and large scale network models In part II the authors show how their systematic approach can be used to analyze specific parts of the nervous system the olfactory system hippocampus thalamus cerebral cortex cerebellum and basal ganglia as well as to integrate data from the study of brain regions functional models and the dynamics of neural networks In conclusion they offer a plan for the use of their methods in the development of cognitive neuroscience

The Central Nervous System of Vertebrates Rudolf Nieuwenhuys, Hans J. ten Donkelaar, Charles

Nicholson, 2014-11-14 This comprehensive reference is clearly destined to become the definitive anatomical basis for all neuroscience research The book provides a complete overview and comparison of the structural organization of all vertebrate groups ranging from amphioxus and lamprey through fishes amphibians and birds to mammals The large specialised section of the work devoted to the CNS of the various vertebrate groups is preceded by introductory chapters on neurons cell masses fibre tracts morphogenesis methodology and techniques Although focusing on structure the authors provide functional correlations throughout This monumental work is and will remain unique the only source of such brilliant illustrations at both the macroscopic and microscopic levels

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