



Advances in Vertebrate Neuroethology

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NATO ASI Series

Series A: Life Sciences, Vol. 56

Advances In Vertebrate Neuroethology

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Advances In Vertebrate Neuroethology:

Advances in Vertebrate Neuroethology Jorg-Peter Ewert, 2012-12-06 This volume presents the proceedings of the NATO Advanced Study Institute on Advances in Vertebrate Neuroethology held at the University of Kassel Federal Republic of Germany in August 1981 During the last decade much progress has been made in understanding the neurophysiological bases of behavior in both vertebrates and invertebrates The reason for this is that a number of new physiological anatomical and histochemical techniques have recently been developed for brain research which can now be combined with ethological methods for the analysis of animal behavior to form a new field of research known as Neuroethology The term Neuroethology was originally introduced by S L Brown and R W Hunsperger 1963 in connection with studies on the activation of agonistic behaviors by electrical brain stimulation in cats Neuroethology was more closely defined by G Hoyle 1970 in the context of a review on cellular mechanisms underlying behavior of invertebrates Since the 6th annual meeting of the Society for Neuroscience held in Toronto in 1976 Neuroethology has become established as a session topic *NATO-advanced Study Institute "Advances in Vertebrate Neuroethology", August 13 to 24, 1981, University of Kassel, Hofgeismar, Schlösschen Schönburg* Jörg-Peter Ewert, 1981 *Biomechanics of Feeding in Vertebrates* V.L. Bels, M. Chardon, P.

Vandewalle, 2012-12-06 Although feeding is not yet been thoroughly studied in many vertebrates taxa and different conceptual and methodological approaches of the concerned scientists make a synthesis difficult the aim of the editors is to provide a comprehensive overview of the feeding design in aquatic and terrestrial vertebrates with a detailed description of its functional properties The book emphasizes the constant interaction between function and form behaviour and morphology in the course of evolution of the feeding apparatus and way of feeding both complementary and basically related to survival interspecific competition adaptation to environmental changes and adaptive radiations Special stress is drawn on quantification of the observational and experimental data on the morphology and biomechanics of the feeding design and its element jaws teeth hyoid apparatus tongue in order to allow present and further comparisons in an evolutionary perspective 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.

Cognitive Processes and Spatial Orientation in Animal and Man Paul Ellen, C. Thinus-Blanc, 1987-02-28

Proceedings of the NATO Advanced Study Institute La Baume les Aix Aix en Provence France June 27 July 7 1985 *Current*

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Communication Andrea Simmons, Richard R. Fay, 2006-04-18 In order to communicate animals send and receive signals that are subject to their particular anatomical, psychological and environmental constraints. This SHAR volume discusses both the production and perception of acoustic signals. Chapters address the information that animals communicate, how the communication is developed and learned, and how communication systems have adapted and evolved within species. The book will give examples from a variety of species. **Journal of Theoretical Neurobiology**, 1984 **National Library of**

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