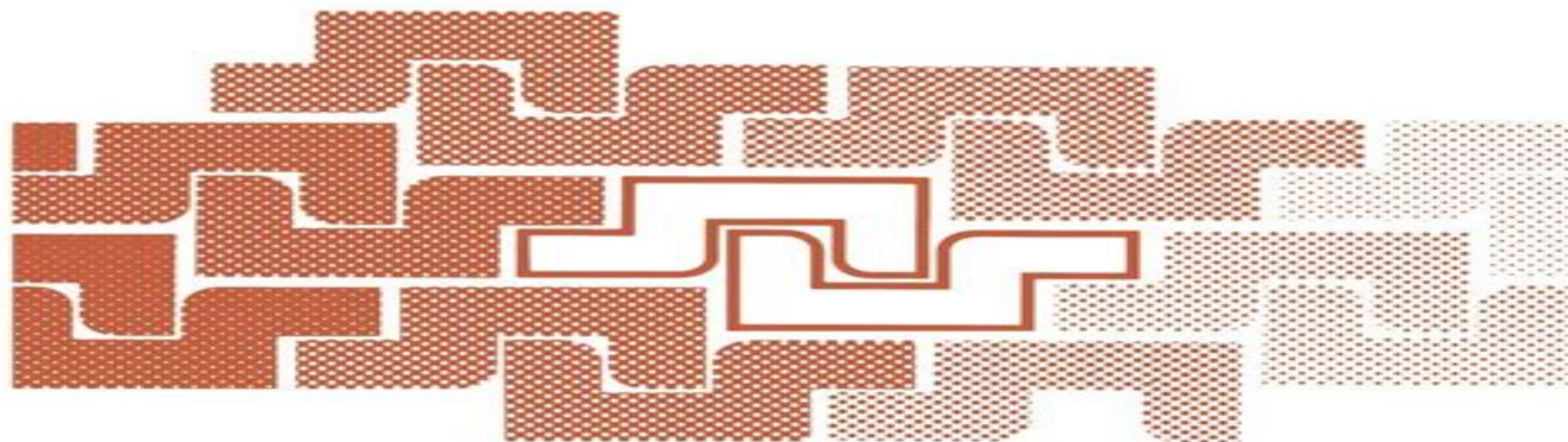




Brain Mechanisms and Spatial Vision

Edited by

David J. Ingle, Marc Jeannerod
and David N. Lee

NATO ASI Series

Brain Mechanisms And Spatial Vision

A.E. Patla



Brain Mechanisms And Spatial Vision:

Brain Mechanisms and Spatial Vision D.J. Ingle, Marc Jeannerod, David Lee, 1984-12-31 This volume contains chapters derived from a N A T O Advanced Study Institute held in June 1983 As the director of this A S I it was my hope that some of the electrophysiologists could express the potentialities of their work for perceptual theory and that some perceptionists could speculate on the underlying units of perception in a way that would engage the imagination of physiologists The reader will have to be the judge of whether this was achieved or whether such a psychophysiological interlingua is still overly idealistic It is clear that after the revolution precipitated by Hubel and Weisel in understanding of visual cortical neurons we still have only a foggy idea of the behavioral output of any particular species of cortical detector It was therefore particularly unfortunate that two persons who have made great strides in correlating interesting facets of cat cortical physiology with human psychophysics Max Cynader and Martin Regan of Dalhousie University were unable to attend this meeting Nevertheless a number of new and challenging ideas regarding both spatial perception and cortical mechanisms are represented in this volume and it is hoped that the reader will remember not only the individual demonstrations but the critical questions posed by the apposition of the two different collections of experimental facts David Ingle April 1984 VII

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topics in this area The chapters are grouped into six sections retina retino geniculate connections visual development comparative visual physiology visual cortex and integrative aspects and the authors describe both their own contributions to the field and the influence of their teacher P O Bishop on their scientific development

Nonlinear Vision:

Determination of Neural Receptive Fields, Function, and Networks Robert B. Pinter, 2018-05-04 This text brings to vision research a treatment different from that often found in books on the subject in its emphasis on nonlinear aspects of vision from human perception to eye cells of the fly There is considerable emphasis on mathematics which forms not only models but the algorithms for processing data

Vision and Mind Vadim D. Glezer, 2013-05-13 The usual method for studying mental processes entails taking words in linguistics or concepts in logic and establishing the connections and relationships between them Thus the traditional approach to semantic problems those of meaning and understanding is through language Most researchers agree that thought and language are generated by deep seated semantic structures determined by the structure of the brain Until now however all attempts at constructing semantic models have been made on the basis of linguistic material alone without taking brain structure into account Analysis of these models shows them to be as inadequate as those based on the method of the black box This book approaches the problem of the organization of higher psychological functions a different way by analyzing the functional organization of the neural structures that gradually form universal categories from raw sensory material At the higher levels of the brain's operation these universals correspond to the basic categories of thought and language The visual system provides rewarding material for such an approach both because it is relatively well researched and because it is the main source of sensory information in humans With this in mind this monograph examines the whole process of the transformation and description the coding of visual information The most important aspect of this process is the transition from the description of visual space to the description of individual objects and the relationships between them This transition is made possible by the existence in the visual system of various mechanisms that developed during evolution as a result of environmental influences Written for a wide circle of investigators in disciplines associated with different aspects of the functioning of the brain physiologists and psychologists this book is also of importance to engineers and mathematicians working on the problems of artificial intelligence and linguists and philosophers interested in the deep structures that form the universals of thought and language

Current Catalog

National Library of Medicine (U.S.), 1985 First multi year cumulation covers six years 1965-70

Brain and Space Jacques Paillard, 1991 This work presents the work of leading authorities on spatial relationships and cognition describing the latest medical research and new theoretical insights The authors explore problems concerning the way space is represented in the brain and how spatial relationships are encoded in the neural network creating a framework for our perceptions that enables them to guide our actions Although these fascinating questions have generated endless philosophical debate over the years it is only recently that neurophysiology has advanced sufficiently to provide a sound scientific basis for understanding the

subject Among the topics examined here are oculomotor control neural control of skeletal movements the contribution of the cortical parietal association areas to mapping spatial information the role of hippocampal structures in cognitive mapping and spatial memory and the ways neural networks generate internal representations of the physical world In addition to researchers and advanced students in neurophysiology neuropsychology and cognitive psychology this state of the art work will interest scientists in the fields of artificial intelligence and robotics *National Library of Medicine Current Catalog* National Library of Medicine (U.S.),1985 *Human-Computer Interaction. Interaction Platforms and Techniques* Julie A. Jacko,2007-08-23 Here is the second of a four volume set that constitutes the refereed proceedings of the 12th International Conference on Human Computer Interaction HCII 2007 held in Beijing China jointly with eight other thematically similar conferences It covers graphical user interfaces and visualization mobile devices and mobile interaction virtual environments and 3D interaction ubiquitous interaction and emerging interactive technologies

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