



# Mach Bands: Quantitative Studies on Neural Networks in the Retina

Ratliff, Floyd

Note: This is not the actual book cover

# Mach Bands Quantitative Studies On Neural Networks In The Retina

**H. Keffer Hartline**



## **Mach Bands Quantitative Studies On Neural Networks In The Retina:**

**Mach Bands** Floyd Ratliff, 1965 One hundred years ago Ernst Mach published the first of his several quantitative studies on the interdependence of neighboring elements in the retina However Mach's application of mathematical modes of thought to the study of the nervous system was so far ahead of the times that his papers attracted little attention when they first appeared Within recent years considerable interest has developed in the mathematical analysis of the properties of complex neural networks The main reason for this seemingly belated development of interest is that only within the last quarter century or so have the techniques of electrophysiology finally become sufficiently advanced to provide a sound empirical foundation for such studies The interplay of the fundamental neural processes of excitation and inhibition about which Mach could only speculate can now be observed directly and with relative ease in practically all parts of the nervous system

*Studies on Excitation and Inhibition in the Retina* H. Keffer Hartline, 1974      *Neural Networks* E. R.

Caianiello, 2012-12-06 Sciences may be nowadays grouped into three classes having as their subjects of study respectively Matter Life and Intelligence That Intelligence may be studied in a quantitative manner is a discovery of our age not less significant in many ways than the 17th century realization that celestial phenomena are of one and the same nature as terrestrial and all other physical accidents As the latter was accomplished through and accompanied by a major revolution in philosophy and method so is now the scientific investigation of intelligent phenomena although barely begun already causing an unprecedented revolution in all our previous conceptions as mind and machine society and organization What electronic computers have already accomplished in disclosing perspectives to sciences and imposing new approaches to management is but a negligible change if compared to those yet in store which will closely follow the understanding of the many as yet unknown functional principles which make nervous systems act and react the way they do The study of Neural Networks is the key point in the systematic quantitative investigation of such phenomena With patience and humility neuroanatomists and physiologists try to connect structure with function in systems of neurons which are simple enough to be studied with the extant techniques either because of the paucity of their elements or because of the high degree of symmetry these possess e.g.

*MATLAB for Neuroscientists* Pascal Wallisch, Michael E. Lusignan, Marc D. Benayoun, Tanya I. Baker, Adam Seth Dickey, Nicholas G. Hatsopoulos, 2014-01-09 MATLAB for Neuroscientists serves as the only complete study manual and teaching resource for MATLAB the globally accepted standard for scientific computing in the neurosciences and psychology This unique introduction can be used to learn the entire empirical and experimental process including stimulus generation experimental control data collection data analysis modeling and more and the 2nd Edition continues to ensure that a wide variety of computational problems can be addressed in a single programming environment This updated edition features additional material on the creation of visual stimuli advanced psychophysics analysis of LFP data choice probabilities synchrony and advanced spectral analysis Users at a variety of levels advanced undergraduates beginning graduate students

and researchers looking to modernize their skills will learn to design and implement their own analytical tools and gain the fluency required to meet the computational needs of neuroscience practitioners The first complete volume on MATLAB focusing on neuroscience and psychology applications Problem based approach with many examples from neuroscience and cognitive psychology using real data Illustrated in full color throughout Careful tutorial approach by authors who are award winning educators with strong teaching experience

**Visual Psychophysics** Dorothea Jameson,L.M. Hurvich,2012-12-06

This volume on Visual Psychophysics documents the current status of research aimed toward understanding the intricacies of the visual mechanism and its laws of operation in intact human perceivers As can be seen from the list of contributors the problems of vision engage the interest and experimental ingenuity of investigators from a variety of disciplines Thus we find authors affiliated with departments of biology medical and physiological physics ophthalmology physics physiology and anatomy psychology laboratories of neurophysiology medical clinics schools of optometry visual and other types of research institutes A continuing interplay between psychophysical studies and physiological work is everywhere evident As more information about the physiological basis of vision accumulates and new studies and analyses of receptor photochemistry and the neurophysiology of retina and brain appear psychophysical studies of the intact organism become more sharply focused sometimes more complex and often more specialized Technological advances have increased the variety and precision of the stimulus controls and advances in measurement techniques have reopened old problems and stimulated the investigation of new ones In some cases new concepts are being drawn in to help further our understanding of the laws by which the visual mechanism operates in other cases ideas enunciated long ago have been reevaluated developed more fully and reified in terms of converging evidence from both psychophysical experiments and unit recordings from visual cells

**The Perception of Visual Information** William R. Hendee,Peter N.T. Wells,2012-12-06 The presentation and interpretation of visual information is essential to almost every activity in human life and most endeavors of modern technology This book examines the current status of what is known and not known about human vision how human observers interpret visual data and how to present such data to facilitate their interpretation and use Written by experts who are able to cross disciplinary boundaries the book provides an educational pathway through several models of human vision describes how the visual response is analyzed and quantified presents current theories of how the human visual response is interpreted discusses the cognitive responses of human observers and examines such applications as space exploration manufacturing surveillance earth and air sciences and medicine The book is intended for everyone with an undergraduate level background in science or engineering with an interest in visual science This second edition has been brought up to date throughout and contains a new chapter on Virtual reality and augmented reality in medicine

**Portraits of Pioneers in Psychology** Gregory A.

Kimble,Michael Wertheimer,2003-06-20 This book offers glimpses into the personal and scholarly lives of 20 giants in the history of psychology As in the earlier volumes prominent scholars were invited to prepare chapters on a pioneer who had

made important contributions in their own area of expertise Some of the psychologists described may be the teachers of the instructors who will be the users of this book potentially providing a personal connection of the pioneers to the students A special section provides brief portraits of the editors and authors containing interesting information about the relationship between the pioneers and the psychologists who describe them Utilizing an informal personal sometimes humorous style of writing the book will appeal to students and instructors interested in the history of psychology Each of the five volumes in this series contains different profiles thereby bringing more than 100 of the pioneers in psychology more vividly to life

**Metaphors of Consciousness** Ronald S. Valle, Rolf von Eckartsberg, 2012-12-06 As we move into the 1980s there is an increasing awareness that our civilization is going through a profound cultural transformation At the heart of this transformation lies what is often called a paradigm shift a dramatic change in the thoughts perceptions and values which form a particular vision of reality The paradigm that is now shifting comprises a large number of ideas and values that have dominated our society for several hundred years values that have been associated with various streams of Western culture among them the Scientific Revolution of the seventeenth century The Enlightenment and the Industrial Revolution They include the belief in the scientific method as the only valid approach to knowledge the split between mind and matter the view of nature as a mechanical system the view of life in society as a competitive struggle for survival and the belief in unlimited material progress to be achieved through economic and technological growth All these ideas and values are now found to be severely limited and in need of radical revision Space and Time in Perception and Action Romi

Nijhawan, Beena Khurana, 2010-03-25 Brings together cutting edge experiments and theoretical treatments regarding space time and motion in visual neuroscience and psychophysics The Visual (Un)Conscious and Its (Dis)Contents Bruno G. Breitmeyer, 2014-06-12 Visual control of our actions can be unconscious as well as conscious For example when a pedestrian steps onto a street and then suddenly steps back to avoid being hit by an oncoming car the pedestrian's visual system has been able to detect the car very rapidly Since the registration of the approaching car in conscious vision could take a few hundreds of milliseconds possibly too long to avoid being struck by it the rapid injury avoiding action has relied on the oncoming car being detected at unconscious levels in the visual system So how and at what level in the visual system is a stimulus processed unconsciously This book explores unconscious and conscious vision investigated using psychophysical and brain recording methods These methods allow microtemporal analyses of visual processing during the interval ranging from a few 10s to a few 100s of milliseconds between a stimulus's impinging on the retinae and its eliciting a behavioral response or a conscious percept By tying these findings to well known neuroanatomical and physiological substrates of vision the book presents and discusses theoretical and empirical approaches to and findings on conscious and unconscious vision In addition to presenting an in depth integrative review of recent and ongoing scientific and scholarly research the book proposes several avenues for directing future research in these areas It also provides a well articulated theoretical and a

detailed empirical base that points to the special importance of the processing of surface properties of visual objects to their conscious vision Aimed at scientists and scholars in visual cognition visual neuroscience and more broadly cognitive science including that part of the philosophical community that is currently occupied with the mind brain problem the book sheds new light on and advances experimental philosophical and scholarly research on visual consciousness     *Computers and Brains* ,1970-01-01 Computers and Brains

**Philosophy of Mind in the Nineteenth Century** Sandra Lapointe,2018-07-06 Between the publication of Kant s Critique of Pure Reason in 1781 and Husserl s Ideas in 1913 the nineteenth century was a pivotal period in the philosophy of mind witnessing the emergence of the phenomenological and analytical traditions that continue to shape philosophical debate in fundamental ways The nineteenth century also challenged many prevailing assumptions about the transparency of the mind particularly in the ideas of Nietzsche and Freud whilst at the same time witnessing the birth of modern psychology in the work of William James Covering the main figures of German idealism to the birth of the phenomenological movement under Brentano and Husserl *Philosophy of Mind in the Nineteenth Century* provides an outstanding survey to these new directions in philosophy of mind Following an introduction by Sandra Lapointe fourteen specially commissioned chapters by an international team of contributors discuss key topics thinkers and debates including German idealism Bolzano Johann Friedrich Herbart Ernst Mach Helmholtz Nietzsche William James Sigmund Freud Brentano s early philosophy of mind Meinong Christian von Ehrenfels Husserl and Natorp Essential reading for students and researchers in philosophy of mind continental philosophy and the history of philosophy *Philosophy of Mind in the Nineteenth Century* is also a valuable resource for those in related disciplines such as psychology religion and literature     **Brain and Mind** G. E. W. Wolstenholme,Maeve O'Connor,2009-09-16 The Novartis Foundation Series is a popular collection of the proceedings from Novartis Foundation Symposia in which groups of leading scientists from a range of topics across biology chemistry and medicine assembled to present papers and discuss results The Novartis Foundation originally known as the Ciba Foundation is well known to scientists and clinicians around the world     *Pragmatism and Embodied Cognitive Science* Roman Madzia,Matthias Jung,2016-10-24 This book endeavors to fill the conceptual gap in theorizing about embodied cognition The theories of mind and cognition which one could generally call situated or embodied cognition have gained much attention in the recent decades However it has been mostly phenomenology Heidegger Merleau Ponty etc which has served as a philosophical background for their research program The main goal of this book is to bring the philosophy of classical American pragmatism firmly into play Although pragmatism has been arguably the first intellectual current which systematically built its theories of knowledge mind and valuation upon the model of a bodily interaction between an organism and its environment as the editors and authors argue it has not been given sufficient attention in the debate and consequently its conceptual resources for enriching the embodied mind project are far from being exhausted In this book the authors propose concrete subject areas in which the philosophy of pragmatism can be of help

when dealing with particular problems the philosophy of the embodied mind nowadays faces a prominent example being the inevitable tension between bodily situatedness and the potential universality of symbolic meaning      *Lightness, Brightness and Transparency* Alan L. Gilchrist, 2013-09-05 This volume deals with the visual perception of lightness brightness and transparency of surfaces both under minimal laboratory conditions and in complex images typical of everyday life Each chapter analyzes the challenging problem of how a pattern of light intensities on the retina is transformed into the visual experience of varying shades of grey transparent surfaces and light and shadow One important theme which unifies the group of contributions is the recognition that the perception of surface lightness is rooted fundamentally in the encoding of relative intensities of light within the retinal image not intensities per se A second important unifying theme is an appreciation of the multiple dimensions of the visual experience of lightness brightness and transparency people do not perceive the lightness of surfaces by discarding information concerning the light illuminating those surfaces rather they perceive a pattern of illumination projected onto a pattern of surface greys The long fascinating problems of surface lightness and color perception have become very active topics recently as a resurging interest within the visual perception community has coincided with an increasing appreciation of the centrality of these problems by the emerging machine vision community The best of recent psychophysical work on lightness perception as presented in this volume will be of great interest to both of these communities This book also marks a synthesis of old and new A traditional strongly Gestalt approach that had fallen into neglect is updated in the light of new quantitative systematic methods and important later discoveries such as the disappearance of stabilized retinal images The book draws on such diverse approaches as Gestalt and ecological psychology threshold psychophysics and computational vision advancing our understanding of the interrelations among surface color illumination perceived depth shading and transparency      Pattern Recognition and Machine Intelligence Sanghamitra Bandyopadhyay, 2005-12-09 This book constitutes the refereed proceedings of the First International Conference on Pattern Recognition and Machine Intelligence PReMI 2005 held in Kolkata India in December 2005 The 108 revised papers presented together with 6 keynote talks and 14 invited papers were carefully reviewed and selected from 250 submissions The papers are organized in topical sections on clustering feature selection and learning classification neural networks and applications fuzzy logic and applications optimization and representation image processing and analysis video processing and computer vision image retrieval and data mining bioinformatics application Web intelligence and genetic algorithms as well as rough sets case based reasoning and knowledge discovery      *Computational Neuroscience: Trends in Research 2004* E. De Schutter, 2004-06-26 The CNS meetings bring together computational neuroscientists representing many different fields and backgrounds as well as many different experimental preparations and theoretical approaches The papers published here range from pure experimental neurobiology to neuro ethology mathematics physics and engineering In all cases the research described is focused on understanding how nervous systems compute The actual subjects of the research include a highly

diverse number of preparations modeling approaches and analysis techniques Accordingly this volume reflects the breadth and depth of current research in computational neuroscience taking place throughout the world Proceedings, American Philosophical Society (vol. 120, No. 5, 1976) , **The Adaptive Brain II** Stephen Grossberg, 2013-10-22 The Adaptive Brain II Vision Speech Language and Motor Control focuses on a unified theoretical analysis and predictions of important psychological and neurological data that illustrate the development of a true theory of mind and brain The publication first elaborates on the quantized geometry of visual space and neural dynamics of form perception Discussions focus on reflectance rivalry and spatial frequency detection figure ground separation by filling in barriers and disinhibitory propagation of functional scaling from boundaries to interiors The text then takes a look at neural dynamics of perceptual grouping and brightness perception Topics include simulation of a parametric binocular brightness study smoothly varying luminance contours versus steps of luminance change macrocircuit of processing stages paradoxical percepts as probes of adaptive processes and analysis of the Beck theory of textural segmentation The book examines the neural dynamics of speech and language coding and word recognition and recall including automatic activation and limited capacity attention a macrocircuit for the self organization of recognition and recall role of intra list restructuring and contextual associations and temporal order information across item representations The manuscript is a vital source of data for scientists and researchers interested in the development of a true theory of mind and brain *The Theoretical Foundation of Dendritic Function* Wilfrid Rall, 1995 This collection of fifteen previously published papers some of them not widely available have been carefully chosen and annotated by Rall's colleagues and other leading neuroscientists



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