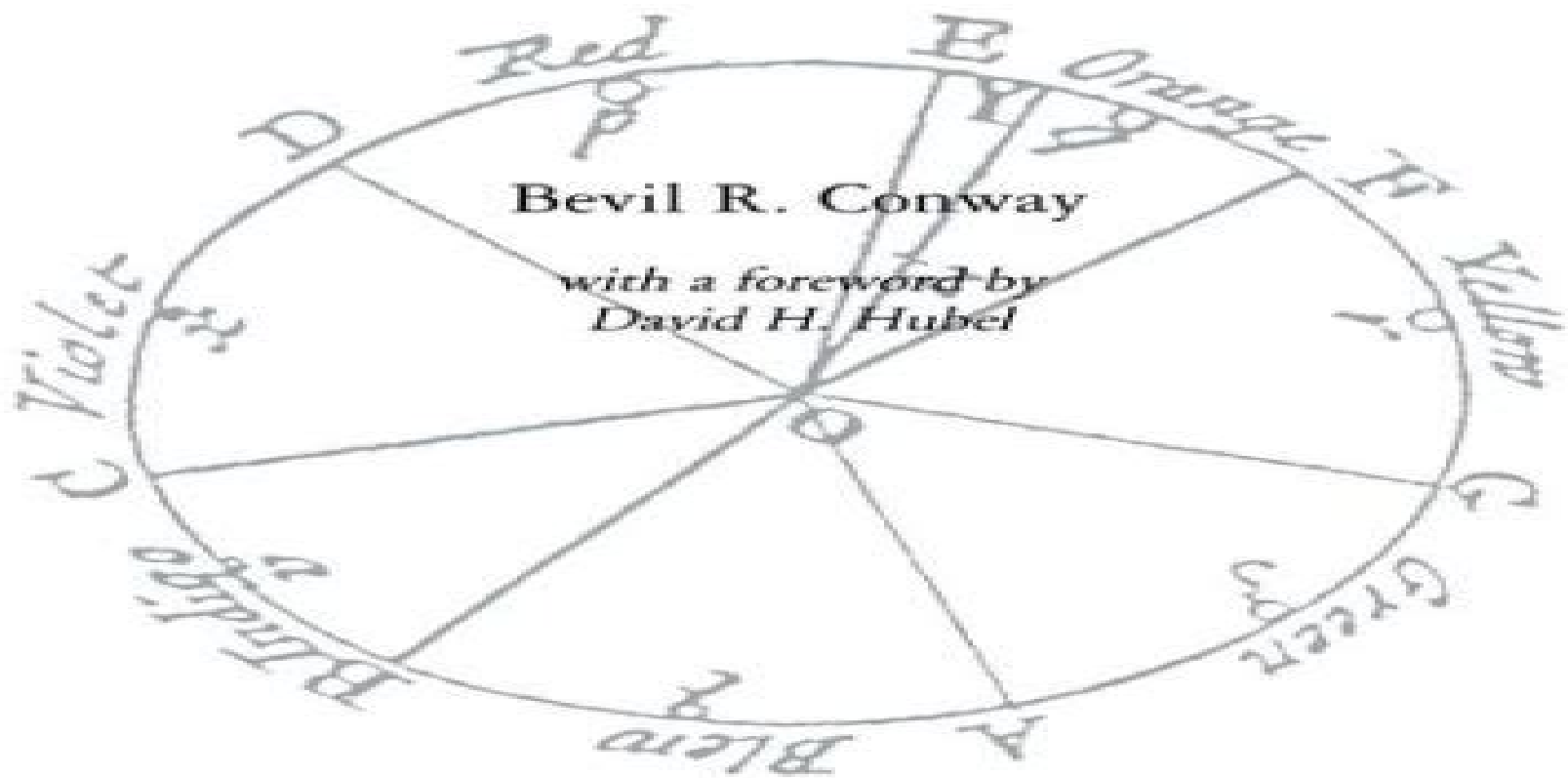


neural mechanisms
of
COLOR VISION



Neural Mechanisms Of Color Vision Doubleopponent Cells In The Visual Cortex

Ronald Calabrese



Neural Mechanisms Of Color Vision Doubleopponent Cells In The Visual Cortex:

Neural Mechanisms of Color Vision Bevil Richard Conway, 2013-03-14 Dr Conway mapped the spatial and temporal structure of the cone inputs to single neurons in the primary visual cortex of the alert macaque. Color cells had receptive fields that were often Double Opponent, an organization of spatial and chromatic opponency sufficient to form the basis for color constancy and spatial color contrast. Almost all color cells gave a bigger response to color when preceded by an opposite color, suggesting that these cells also encode temporal color contrast. In sum, color perception is likely subserved by a subset of specialized neurons in the primary visual cortex. These cells are distinct from those that likely underlie form and motion perception. Color cells establish three color axes sufficient to describe all colors; moreover, these cells are capable of computing spatial and temporal color contrast and probably contribute to color constancy computations because the receptive fields of these cells show spatial and temporal chromatic opponency.

The Art and Science of HDR Imaging John J. McCann, Alessandro Rizzi, 2011-10-04 Rendering High Dynamic Range (HDR) scenes on media with limited dynamic range began in the Renaissance, whereby painters then photographers learned to use low range spatial techniques to synthesize appearances rather than to reproduce accurately the light from scenes. *The Art and Science of HDR Imaging* presents a unique scientific HDR approach derived from artists' understanding of painting, emphasizing spatial information in electronic imaging. Human visual appearance and reproduction rendition of the HDR world requires spatial image processing to overcome the veiling glare limits of optical imaging in eyes and in cameras. Illustrated in full colour throughout, including examples of fine art paintings, HDR photography and multiple exposure scenes, this book uses techniques to study the HDR properties of entire scenes and measures the range of light of scenes and the range that cameras capture. It describes how electronic image processing has been used to render HDR scenes since 1967 and examines the great variety of HDR algorithms used today. Showing how spatial processes can mimic vision and render scenes as artists do, the book also gives the history of HDR from artists' spatial techniques to scientific image processing. Measures and describes the limits of HDR scenes, HDR camera images and the range of HDR appearances. Offers a unique review of the entire family of Retinex image processing algorithms. Describes the considerable overlap of HDR and Color Constancy, two sides of the same coin. Explains the advantages of algorithms that replicate human vision in the processing of HDR scenes. Provides extensive data to test algorithms and models of vision on an accompanying website www.wiley.com/go/mccannhdr.

Human Color Vision Jan Kremers, Rigmor C. Baraas, N. Justin Marshall, 2016-12-06 Our understanding of human color vision has advanced tremendously in recent years, helped along by many new discoveries, ideas and achievements. It is therefore timely that these new developments are brought together in a book assembled specifically to include new research and insight from the leaders in the field. Although intentionally not exhaustive, many aspects of color vision are discussed in this Springer Series in Vision Research book, including the genetics of the photopigments, the anatomy and physiology of photoreceptors, retinal and

cortical pathways color perception the effects of disorders theories on neuronal processes and the evolution of human color vision Several of the chapters describe new state of the art methods within genetics morphology imaging techniques electrophysiology psychophysics and computational neuroscience The book gives a comprehensive overview of the different disciplines in human color vision in a way that makes it accessible to specialists and non specialist scientists alike About the Series The Springer Series in Vision Research is a comprehensive update and overview of cutting edge vision research exploring in depth current breakthroughs at a conceptual level It details the whole visual system from molecular processes to anatomy physiology and behavior and covers both invertebrate and vertebrate organisms from terrestrial and aquatic habitats Each book in the Series is aimed at all individuals with interests in vision including advanced graduate students post doctoral researchers established vision scientists and clinical investigators The series editors are N Justin Marshall Queensland Brain Institute The University of Queensland Australia and Shaun P Collin Neuroecology Group within the School of Animal Biology and the Oceans Institute at the University of Western Australia

Colour Vision Deficiencies XII B. Drum, 2012-12-06 From the 98 presentations of the XIIth Symposium on Colour Vision Deficiencies 61 were selected after peer review and revision by the authors In addition to these contributions this volume contains a cumulative index to all authors in the IRGCVD proceedings since the first one in 1968 including the present volume The contents include contributions on basic questions of anatomical and electrophysiological organisation of the neural pathways underlying colour vision and on ways in which disturbances of these pathways can produce acquired colour vision deficiencies Further contributions deal with genetics and congenital red green colour deficiencies and colour vision testing The resulting publication contains much of interest to basic vision scientists as well as to specialists in colour vision deficiencies

The New Visual Neurosciences John S. Werner, Leo M. Chalupa, 2013-10-25 A comprehensive review of contemporary research in the vision sciences reflecting the rapid advances of recent years Visual science is the model system for neuroscience its findings relevant to all other areas This essential reference to contemporary visual neuroscience covers the extraordinary range of the field today from molecules and cell assemblies to systems and therapies It provides a state of the art companion to the earlier book *The Visual Neurosciences* MIT Press 2003 This volume covers the dramatic advances made in the last decade offering new topics new authors and new chapters The *New Visual Neurosciences* assembles groundbreaking research written by international authorities Many of the 112 chapters treat seminal topics not included in the earlier book These new topics include retinal feature detection cortical connectomics new approaches to mid level vision and spatiotemporal perception the latest understanding of how multimodal integration contributes to visual perception new theoretical work on the role of neural oscillations in information processing and new molecular and genetic techniques for understanding visual system development An entirely new section covers invertebrate vision reflecting the importance of this research in understanding fundamental principles of visual processing Another new section treats translational visual

neuroscience covering recent progress in novel treatment modalities for optic nerve disorders macular degeneration and retinal cell replacement The New Visual Neurosciences is an indispensable reference for students teachers researchers clinicians and anyone interested in contemporary neuroscience Associate Editors Marie Burns Joy Geng Mark Goldman James Handa Andrew Ishida George R Mangun Kimberley McAllister Bruno Olshausen Gregg Recanzone Mandyam Srinivasan W Martin Usrey Michael Webster David Whitney Sections Retinal Mechanisms and Processes Organization of Visual Pathways Subcortical Processing Processing in Primary Visual Cortex Brightness and Color Pattern Surface and Shape Objects and Scenes Time Motion and Depth Eye Movements Cortical Mechanisms of Attention Cognition and Multimodal Integration Invertebrate Vision Theoretical Perspectives Molecular and Developmental Processes Translational Visual Neuroscience

Color , Integrating Visual System Mechanisms, Computational Models and Algorithms/Technologies Hedva Spitzer,Xavier Otazu,Hagit Hel-Or,2020-05-26 Foundations of Colour Science Alexander D. Logvinenko,Vladimir L. Levin,2022-09-22 Presents the science of colour from new perspectives and outlines results obtained from the authors work in the mathematical theory of colour This innovative volume summarizes existing knowledge in the field attempting to present as much data as possible about colour accumulated in various branches of science physics psychophysics colorimetry physiology from a unified theoretical position Written by a colour specialist and a professional mathematician the book offers a new theoretical framework based on functional analysis and convex analysis Employing these branches of mathematics instead of more conventional linear algebra allows them to provide the knowledge required for developing techniques to measure colour appearance to the standards adopted in colorimetric measurements The authors describe the mathematics in a language that is understandable for colour specialists and include a detailed overview of all chapters to help readers not familiar with colour science Divided into two parts the book first covers various key aspects of light colour such as colour stimulus space colour mechanisms colour detection and discrimination light colour perception typology and light metamerism The second part focuses on object colour featuring detailed coverage of object colour perception in single and multiple illuminant scenes object colour solid colour constancy metamer mismatching object colour indeterminacy and more Throughout the book the authors combine differential geometry and topology with the scientific principles on which colour measurement and specification are currently based and applied in industrial applications Presents a unique compilation of the author s substantial contributions to colour science Offers a new approach to colour perception and measurement developing the theoretical framework used in colorimetry Bridges the gap between colour engineering and a coherent mathematical theory of colour Outlines mathematical foundations applicable to the colour vision of humans and animals as well as technologies equipped with artificial photosensors Contains algorithms for solving various problems in colour science such as the mathematical problem of describing metameric lights Formulates all results to be accessible to non mathematicians and colour specialists *Foundations of Colour Science From Colorimetry to Perception* is an invaluable

resource for academics researchers industry professionals and undergraduate and graduate students with interest in a mathematical approach to the science of colour *Perception Beyond Gestalt* Adam Geremek, Mark Greenlee, Svein Magnussen, 2013-09-11 How does the brain piece together the information required to achieve object recognition figure ground segmentation object completion in cases of partial occlusion and related perceptual phenomena This book focuses on principles of Gestalt psychology and the key issues which surround them providing an up to date survey of the most interesting and highly debated topics in visual neuroscience perception and object recognition The volume is divided into three main parts Gestalt and perceptual organisation attention aftereffects and illusions and color vision and art perception Themes covered in the book include a historical review of Gestalt theory and its relevance in modern day neuroscience the relationship between perceptive and receptive fields a critical analysis of spatiotemporal unity of perception the role of Gestalt principles in perceptual organization self organizing properties of the visual field the role of attention and perceptual grouping in forming non retinotopic representations figural distortions following adaptation to spatial patterns illusory changes of brightness in spatial patterns the function of motion illusions as a tool to study Gestalt principles in vision conflicting theories of color vision and the neural basis of it the role of color in figure ground segmentation chromatic assimilation in visual art and perception the phenomena of colored shadows Including contributions from experts in the field this book will provide an essential overview of current research and theory on visual perception and Gestalt It will be key reading for researchers and academics in the field of visual perception and neuroscience *Colour and Form Perception: Straddling the Boundary* Galina V. Paramei, Cees van Leeuwen, 2016-05-31 Starting from psychophysics over the last 50 years most progress in unravelling the mechanisms of color vision has been made through the study of single cell responses mainly in LGN and striate cortex A similar development in the study of form perception may seem to be underway centred on the study of temporal cortex However because of the combinatorial characteristics of form perception we are also observing the opposite tendency from single cell activity to population coding and from static receptive field structures to system dynamics and integration and ultimately a synthetic form of psychophysics of color and form perception From single cells to system integration it is this development the present Research Topic wishes to highlight and promote How does this development affect our views on the various attributes of perception In particular we are interested in to what extent evolving knowledge in the field of color perception is relevant within a developing integrative framework of form perception The goal of this Research Topic is to bring together experimental research encompassing both color and form perception For this volume we planned a broad scope of topics on color in complex scenes color and form as well as dynamic aspects of form perception We expect that the Research Topic will be attractive to the community of researchers whose work straddles the boundary between the two visual perception fields as well as to the wider community interested in integrative systems neuroscience

Encyclopedia of Neuroscience, Volume 1 Larry R. Squire, 2009-06-12 The Encyclopedia of the Neuroscience explores

all areas of the discipline in its focused entries on a wide variety of topics in neurology neurosurgery psychiatry and other related areas of neuroscience Each article is written by an expert in that specific domain and peer reviewed by the advisory board before acceptance into the encyclopedia Each article contains a glossary introduction a reference section and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields **BIOS Instant Notes in Neuroscience** Alan Longstaff, 2005 The second edition of Instant Notes in Neuroscience covers neuroanatomy cellular and molecular neuroscience systems neuroscience behavior development of the nervous system learning memory and common brain disorders It gives rapid and easy access to the core of the subject in an affordable and manageable sized text

Cumulated Index Medicus, 1970 *Brain Mapping*, 2015-02-14 Brain Mapping A Comprehensive Reference Three Volume Set offers foundational information for students and researchers across neuroscience With over 300 articles and a media rich environment this resource provides exhaustive coverage of the methods and systems involved in brain mapping fully links the data to disease presenting side by side maps of healthy and diseased brains for direct comparisons and offers data sets and fully annotated color images Each entry is built on a layered approach of the content basic information for those new to the area and more detailed material for experienced readers Edited and authored by the leading experts in the field this work offers the most reputable easily searchable content with cross referencing across articles a one stop reference for students researchers and teaching faculty Broad overview of neuroimaging concepts with applications across the neurosciences and biomedical research Fully annotated color images and videos for best comprehension of concepts Layered content for readers of different levels of expertise Easily searchable entries for quick access of reputable information Live reference links to ScienceDirect Scopus and PubMed **Colours and Colour Vision** Daniel Kernell, 2016-03-10 Colours are increasingly important in our daily life but how did colour vision evolve How have colours been made used and talked about in different cultures and tasks How do various species of animals see colours Which physical stimuli allow us to see colours and by which physiological mechanisms are they perceived How and why do people differ in their colour perceptions In answering these questions and others this book offers an unusually broad account of the complex phenomenon of colour and colour vision The book's broad and accessible approach gives it wide appeal and it will serve as a useful coursebook for upper level undergraduate students studying psychology particularly cognitive neuroscience and visual perception courses as well as for students studying colour vision as part of biology medicine art and architecture courses **Vision Science** Stephen E. Palmer, 1999-04-14 This book revolutionizes how vision can be taught to undergraduate and graduate students in cognitive science psychology and optometry It is the first comprehensive textbook on vision to reflect the integrated computational approach of modern research scientists This new interdisciplinary approach called vision science integrates psychological computational and neuroscientific perspectives The book covers all major topics related to vision from early

neural processing of image structure in the retina to high level visual attention memory imagery and awareness The presentation throughout is theoretically sophisticated yet requires minimal knowledge of mathematics There is also an extensive glossary as well as appendices on psychophysical methods connectionist modeling and color technology The book will serve not only as a comprehensive textbook on vision but also as a valuable reference for researchers in cognitive science psychology neuroscience computer science optometry and philosophy *Essentials of Neural Science and Behavior* Ronald Calabrese,1995 Designed to complement *Essentials of Neural Science and Behavior* this study guide provides a review of the basic principles of brain and behaviour for undergraduate students Material is reinforced by reading the guide s overviews and objectives and then studying the corresponding chapters in the textbook After completing each chapter the questions in the guide should be attempted to solidify information learned in the text Central and Peripheral Mechanism of Colour Vision David Ottoson,Semir Zeki,1985-06-18 **The Contrast Sensitivity Function: From Laboratory to Clinic** Fang Hou,Zhong-Lin Lu,Peter J. Bex,Alexandre Reynaud,2021-12-30 **Phenomenal Qualities** Paul Coates,Sam Coleman,2015-08-20 What are phenomenal qualities the qualities of conscious experiences How do the phenomenal aspects of conscious experiences relate to brain processes To what extent do experiences represent the things around us or the states of our own bodies Are phenomenal qualities subjective belonging to inner mental episodes of some kind and merely dependent on our brains Or should they be seen as objective belonging in some way to the physical things in the world around us Are they physical properties at all The problematic nature of phenomenal qualities makes it hard to understand how the mind is related to the physical world There is no settled view about these issues which concern some of the deepest and most central problems in philosophy Fourteen original papers written by a team of distinguished philosophers and psychologists and set in context by a full introduction explore the ways in which phenomenal qualities fit in with our understanding of mind and reality The topics covered include phenomenal concepts the relation of sensory qualities to the modalities the limits of current theories about physical matter problems about the nature of perceptual experience projectivism and the extent to which perception is direct non conceptual content the representational nature of pain experience and the phenomenology of thought and issues relating to empirical work on synaesthesia psychological theories of attention and prospects for unifying the phenomenal array with neurophysiological accounts of the brain This volume offers an indispensable resource for anyone wishing to understand the nature of conscious experience

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