

Cognitive Science and Technology

Qi Zhao *Editor*

Computational and Cognitive Neuroscience of Vision

 Springer

Computational Neuroscience Of Vision

**Bernd Jähne, Horst Haussecker, Peter
Geissler**



Computational Neuroscience Of Vision:

Computational and Cognitive Neuroscience of Vision Qi Zhao,2016-10-03 Despite a plethora of scientific literature devoted to vision research and the trend toward integrative research the borders between disciplines remain a practical difficulty To address this problem this book provides a systematic and comprehensive overview of vision from various perspectives ranging from neuroscience to cognition and from computational principles to engineering developments It is written by leading international researchers in the field with an emphasis on linking multiple disciplines and the impact such synergy can lead to in terms of both scientific breakthroughs and technology innovations It is aimed at active researchers and interested scientists and engineers in related fields

Computational Neuroscience of Vision Edmund Rolls,Gustavo Deco,2001-11-01 This exciting new book presents a highly complex subject of vision focussing on the visual information processing and computational operations in the visual system that lead to representations of objects in the brain In addition to visual processing it also considers how visual inputs reach and are involved in the computations underlying a wide range of behaviour thus providing a foundation for understanding the operation of a number of different brain systems This fascinating book will be of value to all those interested in understanding how the brain works and in understanding vision attention memory emotion motivation and action

Vision David Marr,2010-07-09 Available again an influential book that offers a framework for understanding visual perception and considers fundamental questions about the brain and its functions David Marr s posthumously published Vision 1982 influenced a generation of brain and cognitive scientists inspiring many to enter the field In Vision Marr describes a general framework for understanding visual perception and touches on broader questions about how the brain and its functions can be studied and understood Researchers from a range of brain and cognitive sciences have long valued Marr s creativity intellectual power and ability to integrate insights and data from neuroscience psychology and computation This MIT Press edition makes Marr s influential work available to a new generation of students and scientists In Marr s framework the process of vision constructs a set of representations starting from a description of the input image and culminating with a description of three dimensional objects in the surrounding environment A central theme and one that has had far reaching influence in both neuroscience and cognitive science is the notion of different levels of analysis in Marr s framework the computational level the algorithmic level and the hardware implementation level Now thirty years later the main problems that occupied Marr remain fundamental open problems in the study of perception Vision provides inspiration for the continuing efforts to integrate knowledge from cognition and computation to understand vision and the brain

Understanding Vision Li Zhaoping,2014-05-08 While the field of vision science has grown significantly in the past three decades there have been few comprehensive books that showed readers how to adopt a computational approach to understanding visual perception along with the underlying mechanisms in the brain Understanding Vision explains the computational principles and models of biological visual processing and in particular of

primate vision The book is written in such a way that vision scientists unfamiliar with mathematical details should be able to conceptually follow the theoretical principles and their relationship with physiological anatomical and psychological observations without going through the more mathematical pages For those with a physical science background especially those from machine vision this book serves as an analytical introduction to biological vision It can be used as a textbook or a reference book in a vision course or a computational neuroscience course for graduate students or advanced undergraduate students It is also suitable for self learning by motivated readers in addition for those with a focused interest in just one of the topics in the book it is feasible to read just the chapter on this topic without having read or fully comprehended the other chapters In particular Chapter 2 presents a brief overview of experimental observations on biological vision Chapter 3 is on encoding of visual inputs Chapter 5 is on visual attentional selection driven by sensory inputs and Chapter 6 is on visual perception or decoding Including many examples that clearly illustrate the application of computational principles to experimental observations Understanding Vision is valuable for students and researchers in computational neuroscience vision science machine and computer vision as well as physicists interested in visual processes

Biologically Inspired Computer Vision Gabriel Cristobal, Laurent Perrinet, Matthias S. Keil, 2015-08-31 As the state of the art imaging technologies became more and more advanced yielding scientific data at unprecedented detail and volume the need to process and interpret all the data has made image processing and computer vision increasingly important Sources of data that have to be routinely dealt with today's applications include video transmission wireless communication automatic fingerprint processing massive databanks non weary and accurate automatic airport screening robust night vision just to name a few Multidisciplinary inputs from other disciplines such as physics computational neuroscience cognitive science mathematics and biology will have a fundamental impact in the progress of imaging and vision sciences One of the advantages of the study of biological organisms is to devise very different type of computational paradigms by implementing a neural network with a high degree of local connectivity This is a comprehensive and rigorous reference in the area of biologically motivated vision sensors The study of biologically visual systems can be considered as a two way avenue On the one hand biological organisms can provide a source of inspiration for new computational efficient and robust vision models and on the other hand machine vision approaches can provide new insights for understanding biological visual systems Along the different chapters this book covers a wide range of topics from fundamental to more specialized topics including visual analysis based on a computational level hardware implementation and the design of new more advanced vision sensors The last two sections of the book provide an overview of a few representative applications and current state of the art of the research in this area This makes it a valuable book for graduate Master PhD students and also researchers in the field

Hierarchical Object Representations in the Visual Cortex and Computer Vision Antonio Rodríguez-Sánchez, Mazyar Fallah, Ales Leonardis, 2016-06-08 Over the past 40 years neurobiology and computational neuroscience has proved that

deeper understanding of visual processes in humans and non human primates can lead to important advancements in computational perception theories and systems One of the main difficulties that arises when designing automatic vision systems is developing a mechanism that can recognize or simply find an object when faced with all the possible variations that may occur in a natural scene with the ease of the primate visual system The area of the brain in primates that is dedicated at analyzing visual information is the visual cortex The visual cortex performs a wide variety of complex tasks by means of simple operations These seemingly simple operations are applied to several layers of neurons organized into a hierarchy the layers representing increasingly complex abstract intermediate processing stages In this Research Topic we propose to bring together current efforts in neurophysiology and computer vision in order 1 To understand how the visual cortex encodes an object from a starting point where neurons respond to lines bars or edges to the representation of an object at the top of the hierarchy that is invariant to illumination size location viewpoint rotation and robust to occlusions and clutter and 2 How the design of automatic vision systems benefit from that knowledge to get closer to human accuracy efficiency and robustness to variations

A Computational Perspective on Visual Attention John K. Tsotsos,2021-06-22
The derivation exposition and justification of the Selective Tuning model of vision and attention Although William James declared in 1890 Everyone knows what attention is today there are many different and sometimes opposing views on the subject This fragmented theoretical landscape may be because most of the theories and models of attention offer explanations in natural language or in a pictorial manner rather than providing a quantitative and unambiguous statement of the theory They focus on the manifestations of attention instead of its rationale In this book John Tsotsos develops a formal model of visual attention with the goal of providing a theoretical explanation for why humans and animals must have the capacity to attend He takes a unique approach to the theory using the full breadth of the language of computation rather than simply the language of mathematics as the formal means of description The result the Selective Tuning model of vision and attention explains attentive behavior in humans and provides a foundation for building computer systems that see with human like characteristics The overarching conclusion is that human vision is based on a general purpose processor that can be dynamically tuned to the task and the scene viewed on a moment by moment basis Tsotsos offers a comprehensive up to date overview of attention theories and models and a full description of the Selective Tuning model confining the formal elements to two chapters and two appendixes The text is accompanied by more than 100 illustrations in black and white and color additional color illustrations and movies are available on the book s Web site

Retinal Computation Greg Schwartz,2021-08-07
Retinal Computation summarizes current progress in defining the computations performed by the retina also including the synaptic and circuit mechanisms by which they are implemented Each chapter focuses on a single retinal computation that includes the definition of the computation and its neuroethological purpose along with the available information on its known and unknown neuronal mechanisms All chapters contain end of chapter questions associated with a

landmark paper as well as programming exercises This book is written for advanced graduate students researchers and ophthalmologists interested in vision science or computational neuroscience of sensory systems While the typical textbook s description of the retina is akin to a biological video camera the real retina is actually the world s most complex image processing machine As part of the central nervous system the retina converts patterns of light at the input into a rich palette of representations at the output The parallel streams of information in the optic nerve encode features like color contrast orientation of edges and direction of motion Image processing in the retina is undeniably complex but as one of the most accessible parts of the central nervous system the tools to study retinal circuits with unprecedented precision are up to the task This book provides a practical guide and resource about the current state of the field of retinal computation Provides a practical guide on the field of retinal computation Summarizes and clearly explains important topics such as luminance contrast spatial features motion and other computations Contains discussion questions a landmark paper and programming exercises within each chapter

Computational Neuroscience Eric L. Schwartz, 1993-08-26 The thirty original contributions in this book provide a working definition of computational neuroscience as the area in which problems lie simultaneously within computer science and neuroscience They review this emerging field in historical and philosophical overviews and in stimulating summaries of recent results Leading researchers address the structure of the brain and the computational problems associated with describing and understanding this structure at the synaptic neural map and system levels The overview chapters discuss the early days of the field provide a philosophical analysis of the problems associated with confusion between brain metaphor and brain theory and take up the scope and structure of computational neuroscience Synaptic level structure is addressed in chapters that relate the properties of dendritic branches spines and synapses to the biophysics of computation and provide a connection between real neuron architectures and neural network simulations The network level chapters take up the preattentive perception of 3 D forms oscillation in neural networks the neurobiological significance of new learning models and the analysis of neural assemblies and local learning grids Map level structure is explored in chapters on the bat echolocation system cat orientation maps primate stereo vision cortical cognitive maps dynamic remapping in primate visual cortex and computer aided reconstruction of topographic and columnar maps in primates The system level chapters focus on the oculomotor system VLSI models of early vision schemas for high level vision goal directed movements modular learning effects of applied electric current fields on cortical neural activity neuropsychological studies of brain and mind and an information theoretic view of analog representation in striate cortex Eric L. Schwartz is Professor of Brain Research and Research Professor of Computer Science Courant Institute of Mathematical Sciences New York University Medical Center Computational Neuroscience is included in the System Development Foundation Benchmark Series

Computational Vision Hanspeter A. Mallot, 2000 This text provides an introduction to computational aspects of early vision in particular color stereo and visual navigation It integrates approaches from

psychophysics and quantitative neurobiology as well as theories and algorithms from machine vision and photogrammetry. When presenting mathematical material it uses detailed verbal descriptions and illustrations to clarify complex points. The text is suitable for upper level students in neuroscience, biology and psychology who have basic mathematical skills and are interested in studying the mathematical modeling of perception.

Perception, 2002 [Neuro-vision Systems](#) Madan M. Gupta, George K. Knopf, 1994. This IEEE publication brings together the biological motivation, theoretical basis and advanced concepts of neuro vision systems in a single volume. The substantial introductory tutorial, specially written introductions to each of the book's 7 parts and the 46 articles in this collection provide a comprehensive overall view of early and recent activities in the field. You will learn the basics of this emerging science, its principles, applications, computing architectures and hardware models.

The Noisy Brain Edmund T. Rolls, Gustavo Deco, 2010-01-28. The activity of neurons in the brain is noisy in that the neuronal firing times are random for a given mean rate. The Noisy Brain shows that this is fundamental to understanding many aspects of brain function including probabilistic decision making, perception, memory recall, short term memory, attention and even creativity. There are many applications too of this understanding to for example memory and attentional disorders, aging, schizophrenia and obsessive compulsive disorder.

Handbook of Computer Vision and Applications: Systems and applications Bernd Jähne, Horst Haussecker, Peter Geissler, 1999. CD ROM files contain complete text of all three print vols as well as hyperlinks to figures, tables etc and between the index and the text. Also included are hyperlinks to movies, interactive 3 D models, demonstration software and other materials not contained in the print version.

Vision Geometry, 2001 [Attention and Performance in Computational Vision](#) Lucas Paletta, John K. Tsotsos, Erich Rome, Glyn Humphreys, 2004-12-27. In recent research on computer vision systems, attention has been playing a crucial role in mediating bottom up and top down paths of information processing. In applied research the development of enabling technologies such as miniaturized mobile sensors, video surveillance systems and ambient intelligence systems involves the real time analysis of enormous quantities of data. Knowledge has to be applied about what needs to be attended to and when and what to do in a meaningful sequence in correspondence with visual feedback. Methods on attention and control are mandatory to render computer vision systems more robust.

The 2nd International Workshop on Attention and Performance in Computational Vision (WAPCV 2004) was held in the Czech Technical University of Prague, Czech Republic as an associated workshop of the 8th European Conference on Computer Vision (ECCV 2004). The goal of this workshop was to provide an interdisciplinary forum to communicate computational models of visual attention from various viewpoints such as from computer vision, psychology, robotics and neuroscience. The motivation for this interdisciplinary approach was communication and inspiration beyond the individual community to focus discussion on computational modelling to outline relevant objectives for performance comparison, to explore promising application domains and to discuss these with reference to all related aspects of cognitive vision. The

workshop was held as a single day single track event consisting of high quality podium and poster presentations. Invited talks were given by John K Tsotsos about attention and feature binding in biologically motivated computer vision and by Gustavo Deco about the context of attention memory and reward from the perspective of computational neuroscience. The interdisciplinary program committee was composed of 21 internationally recognized researchers. [From Neuron to Cognition via Computational Neuroscience](#) Michael A. Arbib, James J. Bonaiuto, 2016-11-11. A comprehensive integrated and accessible textbook presenting core neuroscientific topics from a computational perspective tracing a path from cells and circuits to behavior and cognition. This textbook presents a wide range of subjects in neuroscience from a computational perspective. It offers a comprehensive integrated introduction to core topics using computational tools to trace a path from neurons and circuits to behavior and cognition. Moreover, the chapters show how computational neuroscience methods for modeling the causal interactions underlying neural systems complements empirical research in advancing the understanding of brain and behavior. The chapters all by leaders in the field and carefully integrated by the editors cover such subjects as action and motor control, neuroplasticity, neuromodulation and reinforcement learning, vision and language, the core of human cognition. The book can be used for advanced undergraduate or graduate level courses. It presents all necessary background in neuroscience beyond basic facts about neurons and synapses and general ideas about the structure and function of the human brain. Students should be familiar with differential equations and probability theory and be able to pick up the basics of programming in MATLAB and or Python. Slides, exercises and other ancillary materials are freely available online and many of the models described in the chapters are documented in the brain operation database BODB which is also described in a book chapter. Contributors: Michael A Arbib, Joseph Ayers, James Bednar, Andrej Bicanski, James J Bonaiuto, Nicolas Brunel, Jean Marie Cabelguen, Carmen Canavier, Angelo Cangelosi, Richard P Cooper, Carlos R Cortes, Nathaniel Daw, Paul Dean, Peter Ford, Dominey Pierre, Enel Jean Marc Fellous, Stefano Fusi, Wulfram Gerstner, Frank Grasso, Jacqueline A Griego, Ziad M Hafed, Michael E Hasselmo, Auke Ijspeert, Stephanie Jones, Daniel Kersten, Jeremie Knuesel, Owen Lewis, William W Lytton, Tomaso Poggio, John Porrill, Tony J Prescott, John Rinzel, Edmund Rolls, Jonathan Rubin, Nicolas Schweighofer, Mohamed A Sherif, Malle A Tagamets, Paul F M J Verschure, Nathan Vierling, Claasen Xiao, Jing Wang, Christopher Williams, Ransom Winder, Alan L Yuille. **Visual Population Codes** Nikolaus Kriegeskorte, Gabriel Kreiman, 2012. How visual content is represented in neuronal population codes and how to analyze such codes with multivariate techniques. Vision is a massively parallel computational process in which the retinal image is transformed over a sequence of stages so as to emphasize behaviorally relevant information such as object category and identity and deemphasize other information such as viewpoint and lighting. The processes behind vision operate by concurrent computation and message passing among neurons within a visual area and between different areas. The theoretical concept of population code encapsulates the idea that visual content is represented at each stage by the pattern of activity across the local population of neurons. Understanding visual population

codes ultimately requires multichannel measurement and multivariate analysis of activity patterns Over the past decade the multivariate approach has gained significant momentum in vision research Functional imaging and cell recording measure brain activity in fundamentally different ways but they now use similar theoretical concepts and mathematical tools in their modeling and analyses With a focus on the ventral processing stream thought to underlie object recognition this book presents recent advances in our understanding of visual population codes novel multivariate pattern information analysis techniques and the beginnings of a unified perspective for cell recording and functional imaging It serves as an introduction overview and reference for scientists and students across disciplines who are interested in human and primate vision and more generally in understanding how the brain represents and processes information [Computer Vision - ECCV ...](#) ,1994

[Visual Attention and Cognition](#) W.H. Zangemeister,H.S. Stiehl,C. Freksa,1996-09-23 The goal of this book is to put together some of the main interdisciplinary aspects that play a role in visual attention and cognition The book is aimed at researchers and students with interdisciplinary interest In the first chapter a general discussion of the influential scanpath theory and its implications for human and robot vision is presented Subsequently four characteristic aspects of the general theme are dealt with in topical chapters each of which presents some of the different viewpoints of the various disciplines involved They cover neuropsychology clinical neuroscience modeling and applications Each of the chapters opens with a synopsis tying together the individual contributions

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In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Computational Neuroscience Of Vision**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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