

**COMPUTATIONAL  
PROCESSES IN  
HUMAN VISION:**

*An Interdisciplinary Perspective*

edited by

**ZENON PYLYSHYN**

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**Zenon Pylyshyn, series editor**

# Computational Processes In Human Vision An Interdisciplinary Perspective

**TD Snyder**



## **Computational Processes In Human Vision An Interdisciplinary Perspective:**

*Computational Processes in Human Vision* Zenon W. Pylyshyn, 1988 This text is the result of a workshop which brought together a group of researchers concerned with understanding human as well as artificial vision from a computational perspective The chapters are original essays and research reports that span a wide range of disciplinary approaches from experimental psychophysics and psychobiology to mathematical analysis to a spectrum of problems in visual processing

**Computation, Cognition, and Pylyshyn** Don Dedrick, Lana Trick, 2009 Zenon Pylyshyn is a towering figure in cognitive science his book *Computation and Cognition* MIT Press 1984 is a foundational presentation of the relationship between cognition and computation His recent work on vision and its preconceptual mechanism has been influential and controversial In this book leading cognitive scientists address major topics in Pylyshyn's work and discuss his contributions to the cognitive sciences Contributors discuss vision considering such topics as multiple object tracking action molecular and cellular cognition and inhibition of return and foundational issues including connectionism modularity the evolution of the perception of number computation cognitive architecture location and visual sensory representations of objects

**Cognition on Cognition** Jacques Mehler, Susana Franck, 1995 This broad ranging volume includes a series of articles that were originally published as a special issue of *Cognition* produced to celebrate the 50th volume of the journal This broad ranging volume includes a series of articles that were originally published as a special issue of *Cognition* produced to celebrate the 50th volume of the journal Written by some of the foremost scientists studying different aspects of the mind the articles review progress achieved over the past twenty five years in the main areas of the discipline They provide a unique record of what is happening today in the field of cognition with an added historical perspective that is often absent from other volumes that seek to cover so much ground The chapters have been arranged in sections on Neuropsychology Thinking and Language and Perception These thematic areas deal with theoretical aspects ranging from the status of explanations in cognitive science to evolutionary accounts of human cognitive faculties to the way in which humans use these faculties to reason about perceive and interact with their environment and each other There are also contributions dealing with the abilities of young infants and articles that relate behaviors to their underlying neural substrata

**Neurobiology of Attention** Laurent Itti, Geraint Rees, John K. Tsotsos, 2005-03-31 A key property of neural processing in higher mammals is the ability to focus resources by selectively directing attention to relevant perceptions thoughts or actions Research into attention has grown rapidly over the past two decades as new techniques have become available to study higher brain function in humans non human primates and other mammals *Neurobiology of Attention* is the first encyclopedic volume to summarize the latest developments in attention research An authoritative collection of over 100 chapters organized into thematic sections provides both broad coverage and access to focused up to date research findings This book presents a state of the art multidisciplinary perspective on psychological physiological and computational approaches to understanding the neurobiology of attention

Ideal for students as a reference handbook or for rapid browsing the book has a wide appeal to anybody interested in attention research Contains numerous quick reference articles covering the breadth of investigation into the subject of attention Provides extensive introductory commentary to orient and guide the reader Includes the most recent research results in this field of study

**Spatial and Temporal Reasoning** O. Stock,2007-07-27 Qualitative reasoning about space and time a reasoning at the human level promises to become a fundamental aspect of future systems that will accompany us in daily activity The aim of Spatial and Temporal Reasoning is to give a picture of current research in this area focusing on both representational and computational issues The picture emphasizes some major lines of development in this multifaceted constantly growing area The material in the book also shows some common ground and a novel combination of spatial and temporal aspects of qualitative reasoning Part I presents the overall scene The chapter by Laure Vieu is on the state of the art in spatial representation and reasoning and that by Alfonso Gerevini gives a similar survey on research in temporal reasoning The specific contributions to these areas are then grouped in the two main parts In Part II Roberto Casati and Achille Varzi examine the ontological status of spatial entities Anthony Cohn Brandon Bennett John Gooday and Nicholas Gotts present a detailed theory of reasoning with qualitative relations about regions Andrew Frank discusses the spatial needs of geographical information systems and Annette Herskovits focuses on the linguistic expression of spatial relations In Part III James Allen and George Ferguson describe an interval temporal logic for the representation of actions and events Drew McDermott presents an efficient way of predicting the outcome of plan execution and Erik Sandewall introduces a semantics based on transitions for assessing theories of action and change In Part IV Antony Galton s chapter stands clearly between the two areas of space and time and outlines the main coordinates of an integrated approach

**Seeing and Visualizing** Zenon W. Pylyshyn,2003 How we see and how we visualize why the scientific account differs from our experience

**Human Vision and Electronic Imaging** ,2005 Proceedings of the Twelfth National Conference on Artificial Intelligence American Association for Artificial Intelligence,1994 *Representation in the Brain* Asim Roy,Leonid Perlovsky,Tarek Besold,Juyang Weng,Jonathan Edwards,2018-09-28 This eBook contains ten articles on the topic of representation of abstract concepts both simple and complex at the neural level in the brain Seven of the articles directly address the main competing theories of mental representation localist and distributed Four of these articles argue either on a theoretical basis or with neurophysiological evidence that abstract concepts simple or complex exist have to exist at either the single cell level or in an exclusive neural cell assembly There are three other papers that argue for sparse distributed representation population coding of abstract concepts There are two other papers that discuss neural implementation of symbolic models The remaining paper deals with learning of motor skills from imagery versus actual execution A summary of these papers is provided in the Editorial

1998 IEEE Workshop on Visual Surveillance IEEE Computer Society,1998 Aimed at researchers professors practitioners students and other computing professionals this is a collection of papers on

computational intelligence specifically visual surveillance

**Biology And Computation: A Physicist's Choice** Hanoch Gutfreund, Gerard Toulouse, 1994-03-04 This book provides a comprehensive review of the works in the rapidly evolving field of neural networks and brain studies Its purpose is two fold to help physicists entering this field to get a broader view of the context of the domain and to help scientists of other disciplines to reach a better understanding of the physicists contributions within a context of perspectives they can relate to Included in the volume are 68 carefully selected high quality reprints to provide the volume with both breadth and depth It is organized into 5 sections and 22 chapters both the sections and chapters being preceded by introductory comments by the editors

Proceedings, CVPR '89, 1989 Proceedings of an IEEE conference see title held June 1989 San Diego CA Topics include edge detection shape form morphology neural networks image and texture segmentation monocular polarization cues architecture systems No index Annotation copyrighted by Book News Inc Portland OR

Advances in Computer Vision Franc Solina, 1997-11-26 Computer vision solutions used to be very specific and difficult to adapt to different or even unforeseen situations The current development is calling for simple to use yet robust applications that could be employed in various situations This trend requires the reassessment of some theoretical issues in computer vision A better general understanding of vision processes new insights and better theories are needed The papers selected from the conference staged in Dagstuhl in 1996 to gather scientists from the West and the former eastern block countries address these goals and cover such fields as 2D images scale space morphology segmentation neural networks Hough transform texture pyramids recovery of 3 D structure shape from shading optical flow 3 D object recognition and how vision is integrated into a larger task driven framework hand eye calibration navigation perception action cycle

**Cognitive Science Technical Report**, 1991 **Canadian Journal of Experimental Psychology**, 2002

Program of the Thirteenth Annual Conference of the Cognitive Science Society Cognitive Science Society (U.S.). Conference, 1991

Spatial Vision, 1988 **Vision Geometry**, 1993 *Proceedings*, 1987

**Forthcoming Books** Rose Arny, 1989

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