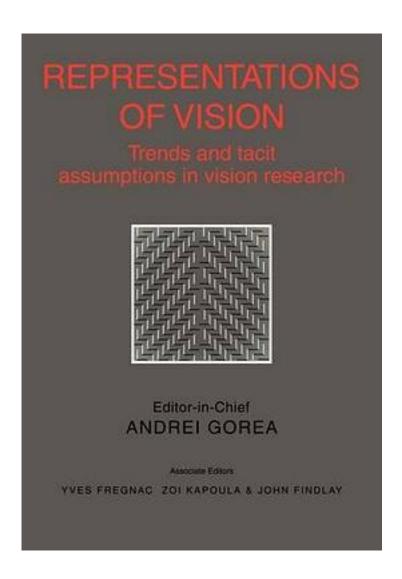# Representations of Vision

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First published in 1991, this stimulating volume on vision extends well beyond the

traditional areas of vision research and places the subject in a much broader philosophical context. The emphasis throughout is to integrate and illuminate the visual process. The first three parts of the volume provide authoritative overviews on computational vision and neural networks, on the neurophysiology of visual cortex processing, and on eye-movement research. Each of these parts illustrates how different research perspectives may jointly solve fundamental problems related to the efficiency of visual perception, to the relationship between vision and eye-movements and to the neurophysiological 'codes' underlying our visual perceptions. In the fourth part, leading vision scientists introduce the reader to some major philosophical problems in vision research such as the nature of 'ultimate' codes for perceptual events, the duality of psycho-physics, the bases of visual recognition and the paradigmatic foundations of computer-vision research. This volume will be of interest to all neuroscientists, cognitive scientists, neurophysiologists, psychologists and to those working on neural networks, AI and computer vision.

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