



From Images to Surfaces: A Computational Study of the Human Early Visual System (Paperback)

By W. Eric L. Grimson

MIT Press Ltd, United States, 1981. Paperback. Condition: New. Language: English . Brand New Book. The projection of light rays onto the retina of the eye forms a two-dimensional image, but through combining the stereoscopic aspect of vision with other optical clues by means of some remarkably effective image-processing procedures, the viewer is able to perceive three-dimensional representations of scenes. From Images to Surfaces proposes and examines a specific image-processing procedure to account for this remarkable effect—a computational approach that provides a framework for understanding the transformation of a set of images into a representation of the shapes of surfaces visible in a scene. Although much of the analysis is applicable to any visual information processing system—biological or artificial—Grimson constrains his final choice of computational algorithms to those that are biologically feasible and consistent with what is known about the human visual system. In order to clarify the analysis, the approach distinguishes three independent levels: the computational theory itself, the algorithms employed, and the underlying implementation of the computation, in this case through the human neural mechanisms. This separation into levels facilitates the generation of specific models from general concepts. This research effort had its origin in a theory of...

DOWNLOAD



READ ONLINE

[4.33 MB]

Reviews

An incredibly wonderful ebook with lucid and perfect answers. It is written in easy words instead of difficult to understand. It has been printed in an exceptionally easy way in fact it is simply following it finished reading this publication in which really modified me, modify the way I think.

-- **Mr. Keyshawn Weimann**

This is an awesome publication which I have actually read. This is certainly for all who state that there was not a well worth reading through. It has been designed in an extremely straightforward way and it is merely after I finished reading this ebook in which actually changed me, affect the way in my opinion.

-- **Marques Pagac**