

A Production System Modeling High-Level Visual Perspective Information for Spatial Layout (Classic Reprint) (Hardback)



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Reviews

Very useful to any or all group of folks. It really is rally interesting throgh reading through period of time. Once you begin to read the book, it is extremely difficult to leave it before concluding.
(Mrs. Dorris Wintheiser)

A PRODUCTION SYSTEM MODELING HIGH-LEVEL VISUAL PERSPECTIVE INFORMATION FOR SPATIAL LAYOUT (CLASSIC REPRINT) (HARDBACK)



FBC LTD, 2018. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from A Production System Modeling High-Level Visual Perspective Information for Spatial Layout The variety of existing and potential visual systems is enormous. In particular, there are fundamental differences, both in their constituent elements and in their organization, between biological and computer vision systems. Nevertheless, if a vision system is to perform certain functions, there are certain problems that it must solve. The function of object recognition, for example, must deal with the problem that a three-dimensional solid object has differing two-dimensional optical projections when viewed from differing points of observation. Functions such as locomotion and object manipulation that require the system to interact with its environment must solve the problem of determining the three-dimensional spatial layout of relevant portions of the environment based on one or more two-dimensional optical projections. The difficulty that researchers have had in understanding biological vision systems. And in creating computer vision systems is due in large part to the difficulty of the problems that such systems must solve. Problems such as those referred to above would be completely intractable were it not for the existence of predictable regularities in the environments within which vision systems must function. Biological vision systems are closely adapted, through evolution and learning, to the characteristics of their natural environments. Most existing computer vision systems function within rigorously controlled environments, but this control must be loosened if the range of functions of these systems is to be extended. A broad underlying problem for any vision system is how to make use of reliable environmental constraints to overcome the inherent ambiguity that arises in the optical projection from three dimensions onto two. The relations that map combinations of environmental constraints and two dimensional optical projections...



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