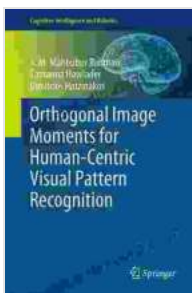


Orthogonal Image Moments for Human-Centric Visual Pattern Recognition: A Cognitive Approach

Human-centric visual pattern recognition is a fundamental aspect of human cognition. Our ability to perceive and interpret visual information is essential for everyday tasks such as object recognition, scene understanding, and social interaction. Orthogonal image moments are a powerful mathematical tool that can be used to capture and quantify visual patterns in a way that is both efficient and effective. This book presents a comprehensive overview of orthogonal image moments, with a focus on their applications in human-centric visual pattern recognition.



Orthogonal Image Moments for Human-Centric Visual Pattern Recognition (Cognitive Intelligence and Robotics) by Krishna Sankar

★★★★★ 5 out of 5

Language : English
File size : 31029 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 231 pages



Mathematical Foundations

The book begins with a thorough to the mathematical foundations of orthogonal image moments. This includes discussions of the different types

of orthogonal moments, their properties, and their relationships to other image descriptors. The book also provides detailed derivations of the mathematical equations that are used to compute orthogonal image moments.

Cognitive Perspective

The book then takes a unique cognitive perspective on orthogonal image moments. This perspective is based on the idea that orthogonal image moments can be used to capture the way that humans perceive and interpret visual patterns. The book provides experimental evidence to support this claim, and it discusses the implications of this finding for the design of computer vision systems.

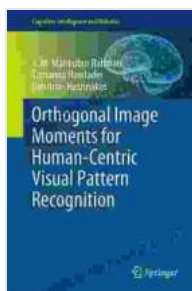
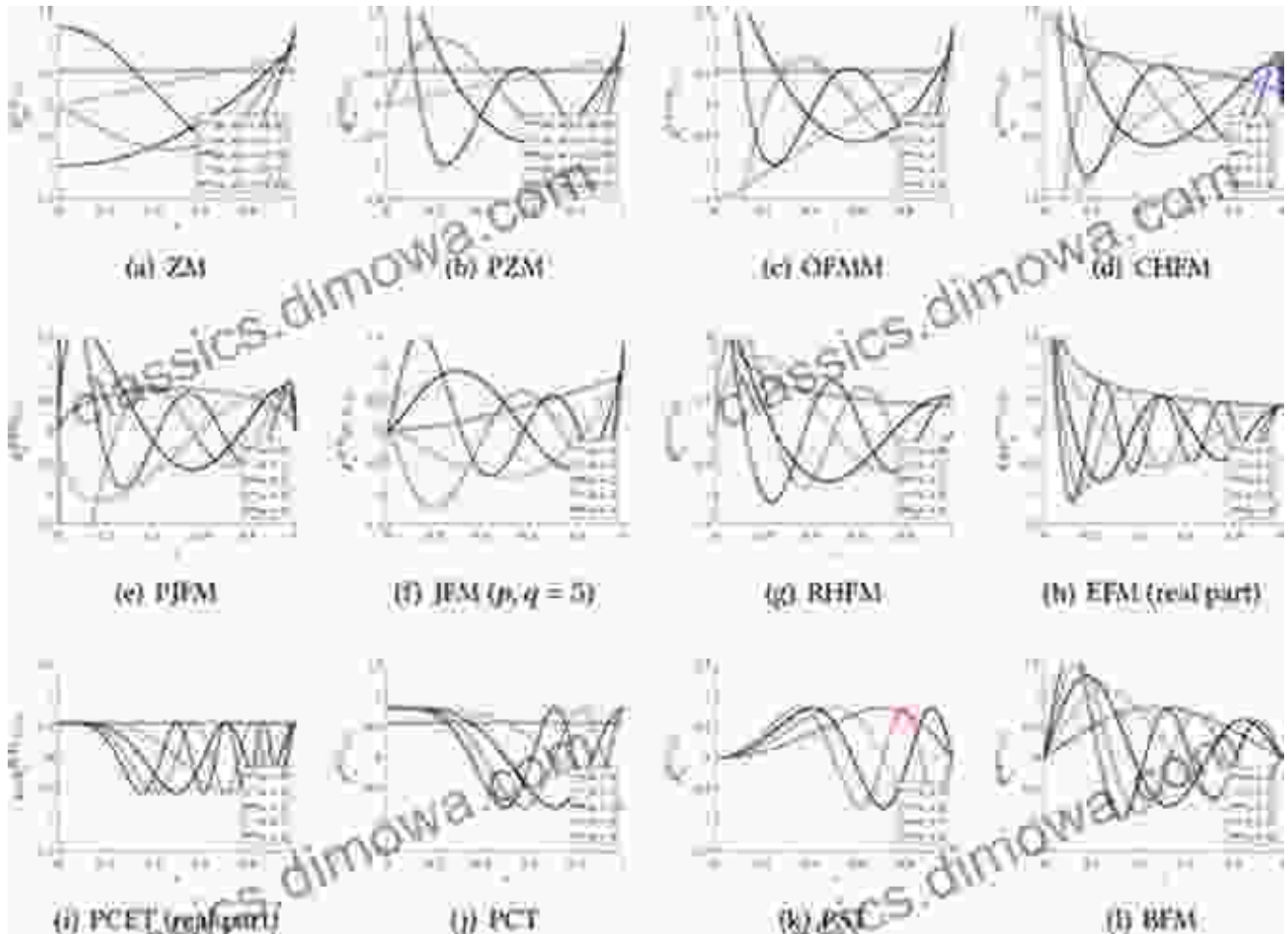
Applications

The book concludes with a discussion of the applications of orthogonal image moments in human-centric visual pattern recognition. These applications include object recognition, scene understanding, and social interaction. The book provides detailed examples of how orthogonal image moments can be used to solve these problems, and it discusses the advantages and disadvantages of using orthogonal image moments over other approaches.

This book is a comprehensive and authoritative resource on orthogonal image moments for human-centric visual pattern recognition. It provides a deep understanding of the mathematical foundations of orthogonal image moments, their cognitive significance, and their applications in computer vision. The book is written in a clear and accessible style, and it is suitable for researchers, students, and practitioners in the fields of computer vision,

image processing, pattern recognition, computer graphics, and artificial intelligence.

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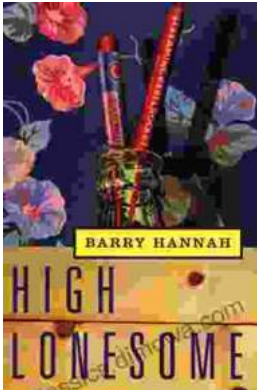
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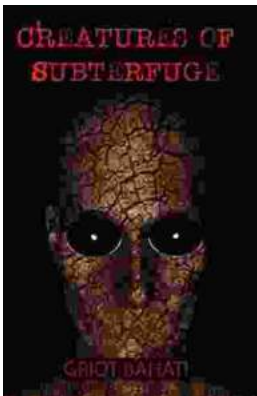
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