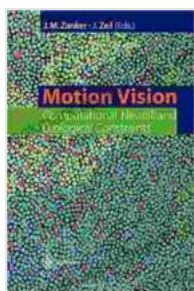# Motion Vision: Computational, Neural, and Ecological Constraints

Motion vision is the study of how the visual system processes information about motion. It is a complex and challenging problem, as the visual system must be able to extract information about the direction, speed, and acceleration of objects in the world, even when those objects are moving against a complex background.

Motion vision has been studied by psychologists, neuroscientists, and computer scientists for over a century. In recent years, there has been a growing convergence between these fields, as researchers have begun to use computational models to simulate the neural mechanisms of motion vision and to test the predictions of those models against experimental data.

Motion Vision: Computational, Neural, and Ecological Constraints by Johannes M. Zanker

★★★★★ 5 out of 5

Language	: English
File size	: 6314 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Word Wise	: Enabled
Print length	: 409 pages
Paperback	: 152 pages
Item Weight	: 1.74 pounds
Hardcover	: 436 pages
X-Ray for textbooks	: Enabled

FREE

DOWNLOAD E-BOOK

This book provides a comprehensive overview of the field of motion vision, from its historical origins to the most recent advances in computational modeling and neural mechanisms. The book is divided into three parts:

- Part I: Computational Models of Motion Vision

- Part II: Neural Mechanisms of Motion Vision

- Part III: Ecological Constraints on Motion Vision

Part I provides an overview of the computational models that have been proposed to explain how the visual system processes information about motion. These models range from simple filters that detect motion in a single direction to complex models that can track the motion of multiple objects in a scene.

Part II provides an overview of the neural mechanisms that are involved in motion vision. These mechanisms include the neurons in the retina that detect motion, the neurons in the brain that process motion information, and the connections between these neurons.

Part III provides an overview of the ecological constraints on motion vision. These constraints include the properties of the visual environment, the goals of the observer, and the limitations of the visual system.

This book is an essential resource for anyone who is interested in motion vision. It provides a comprehensive overview of the field, and it is written in a clear and accessible style.

Reviews

"Motion Vision is a comprehensive and up-to-date overview of the field. It is written by leading experts in the field, and it provides a clear and accessible to the computational, neural, and ecological aspects of motion vision." - **Dr. David Heeger, New York University**

"Motion Vision is an essential resource for anyone who is interested in motion vision. It provides a comprehensive overview of the field, and it is written in a clear and accessible style." - **Dr. James Enns, University of British Columbia**

Free Download Your Copy Today!

Motion Vision: Computational, Neural, and Ecological Constraints is available now from Our Book Library.com and other major booksellers.

Free Download your copy today!
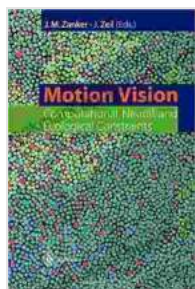
Motion Vision: Computational, Neural, and Ecological Constraints by Johannes M. Zanker

★★★★★ 5 out of 5

Language	: English
File size	: 6314 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Word Wise	: Enabled
Print length	: 409 pages
Paperback	: 152 pages
Item Weight	: 1.74 pounds
Hardcover	: 436 pages
X-Ray for textbooks	: Enabled

FREE

DOWNLOAD E-BOOK PDF
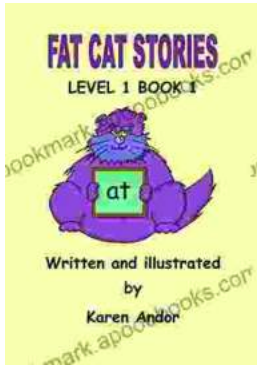
Fat Cat Stories: Level At Word Family - A Purrfect Start to Early Reading Adventures!

Introducing the 'At' Word Family with a Dash of Feline Charm Prepare your little ones for a paw-some reading experience with Fat Cat Stories: Level At...

Unveiling the Treasures of Russian Poetry: The Cambridge Introduction to Russian Poetry

Immerse yourself in the enchanting realm of Russian poetry, a literary treasure that has captivated hearts and minds for centuries. "The Cambridge to Russian...