# BIOELECTRONIC VISION

Series on Bioengineering & Biomedical Engineering – Vol. 3

**BIOELECTRONIC VISION**
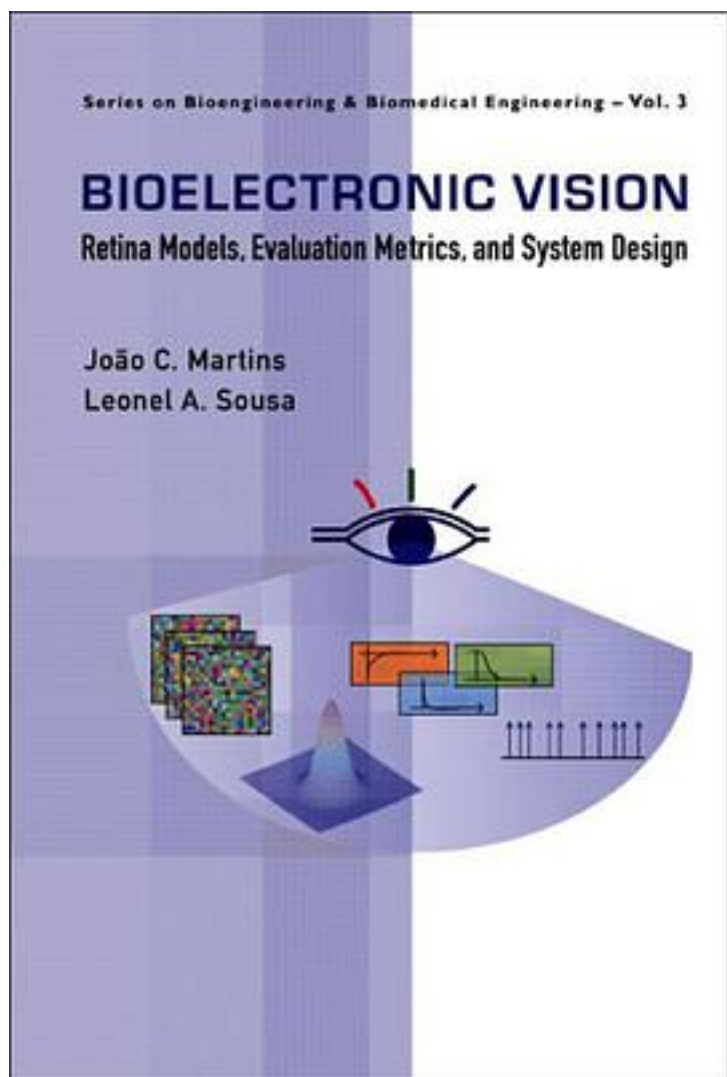Retina Models, Evaluation Metrics, and System Design

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This book provides a sound mathematical and technical perspective in functional and structural retina models, presents evaluation metrics to assess those models, and provides insights about the models hardware implementation.

It begins by introducing the retina anatomy and its workings in a detailed way suitable for an engineering audience, while providing the mathematical analysis of the retina neural response. Moreover, it explores and establishes a framework for the comparison of retina models by organizing a set of metrics for testing and evaluating the different models.

The book follows a signal processing perspective, where all models and metrics are discretized in order to be implemented and tested in a digital system, such as a computer or a specialized dedicated hardware device.

Contents:Introduction to Bioelectronic Vision; The Human Visual System; Characterization of the Neural Response; Retina Models; Neural Activity Metrics and Models Assessment; Design and Implementation of Bioelectronic Vision Systems.

作者介绍:

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