

Intelligent Wavelet Based Techniques For Advanced Multimedia Applications

Wavelets are a powerful mathematical tool that has been used in a wide variety of applications, including image processing, video processing, and audio processing. Intelligent wavelet based techniques are wavelet-based techniques that use artificial intelligence to improve their performance. These techniques have been shown to be effective for a variety of tasks, such as image denoising, video compression, and audio enhancement.



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★★★★★ 5 out of 5

Language : English
File size : 18230 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 230 pages



This book provides a comprehensive guide to the use of intelligent wavelet based techniques for advanced multimedia applications. The book begins with a detailed overview of wavelet theory and its applications in multimedia applications. It then discusses the latest advances in intelligent wavelet based techniques, such as compressive sensing and deep learning.

The book is divided into three parts:

1. **Part I: Wavelet Theory and Applications**
2. **Part II: Intelligent Wavelet Based Techniques**
3. **Part III: Advanced Multimedia Applications**

Part I provides a detailed overview of wavelet theory and its applications in multimedia applications. It covers the following topics:

- to wavelets
- Wavelet transforms
- Wavelet applications in image processing
- Wavelet applications in video processing
- Wavelet applications in audio processing

Part II discusses the latest advances in intelligent wavelet based techniques. It covers the following topics:

- Compressive sensing
- Deep learning
- Wavelet-based neural networks
- Applications of intelligent wavelet based techniques in multimedia

Part III discusses advanced multimedia applications of intelligent wavelet based techniques. It covers the following topics:

- Image denoising

- Video compression
- Audio enhancement
- Multimedia security
- Multimedia forensics

This book is a valuable resource for researchers, engineers, and students who are interested in the use of wavelets in multimedia applications. It provides a comprehensive overview of the field and discusses the latest advances in intelligent wavelet based techniques.

Table of Contents

1. Part I: Wavelet Theory and Applications

- Chapter 1: to Wavelets
- Chapter 2: Wavelet Transforms
- Chapter 3: Wavelet Applications in Image Processing
- Chapter 4: Wavelet Applications in Video Processing
- Chapter 5: Wavelet Applications in Audio Processing

• Part II: Intelligent Wavelet Based Techniques

- Chapter 6: Compressive Sensing
- Chapter 7: Deep Learning
- Chapter 8: Wavelet-Based Neural Networks

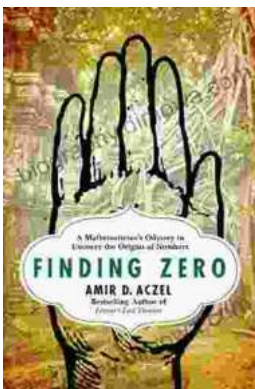
- Chapter 9: Applications of Intelligent Wavelet Based Techniques in Multimedia
- **Part III: Advanced Multimedia Applications**
 - Chapter 10: Image Denoising
 - Chapter 11: Video Compression
 - Chapter 12: Audio Enhancement



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