



Signal Processing Methods for Audio, Images and Telecommunications (Signal Processing and its Applications)

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In recent years, rapid advances in computer hardware technology, including the development of specialized digital signal processors, have facilitated the development of algorithms whose applications would have been unthinkable only a short time ago. These algorithms allow for real-time application, make use of prior knowledge, can adapt in response to a changing environment, and are designed to achieve near-optimum performance under a broad range of operating conditions. This book examines the application of such algorithms to audio, video, and telecommunications.

The book is divided into four parts: methods, applications to audio, video, and telecommunications. Topics covered include wavelet transforms, adaptive filter design, neural networks, order statistic filters and projection methods.

Each chapter has been written by a leading expert in the field. **Signal Processing Methods for Audio, Images and Telecommunications** will be of great interest to students, researchers, and engineers alike, in all areas of signal and image processing.

Key Features

- * Wavelet transforms
- * Adaptive filter design
- * Neural networks
- * Order statistic filters
- * Projections methods

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