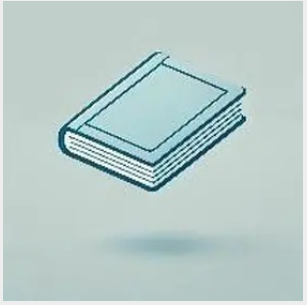
Krishnan

Audio Signal Processing

Advanced Analysis and Machine Learning Applications

Audio Signal Processing: Advanced Analysis and Machine Learning Applications covers the basics of audio signal processing and analysis from sensing, acquisition, digitization, filtering, denoising, modeling, feature analysis, machine learning, and pattern recognition/decision-making. The book provides practical examples, illustrations, lab exercises, and mini projects to enhance the learning experience. Audio is a fundamental modality of data that has immense utility and need in human communication, digital transmission, pattern discovery, ecological understanding, healthcare, and many more. Thus, advancements in sensor technology, signal processing, and machine learning have led to audio as an asset in many vertical applications.

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