

Audio Signal Compression using DCT and LPC Techniques

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Abstract—Audio compression is designed to reduce the transmission bandwidth requirement of digital audio streams and storage size of audio files. Audio compression has become one of the basic technologies of the multimedia age to achieve transparent coding of audio and speech signals at the lowest possible data rates. This paper presents a comparative analysis of audio signal compression using transformation techniques like discrete cosine transform and linear prediction coding. Performance measures like compression ratio, signal to noise ratio (SNR), peak signal to noise ratio (PSNR) and mean square error (MSE) etc are calculated for analysis.

Key words— Discrete Cosine Transform (DCT), linear prediction coding (LPC), compression ratio (CR), SNR, PSNR, MSE.

I. INTRODUCTION

In digital signal processing data compression involves encoding the information using fewer bits than the original representation. Compression reduces the usage of resources like storage space and transmission capacity. Audio Compression is a process of lessening the dynamic range between the loudest and quietest parts of an audio signal. This is done by boosting the quieter signals and attenuating the louder signals. Audio compression basically consists of two parts. The first part, called encoding, transforms the digital audio data (.WAV file) into a highly compressed form called bit stream. However, the second part, called decoding takes the bit stream and re-expands it to a WAV file[1].

Compression Types

There are mainly two types of compression techniques: Lossless Compression and Lossy Compression techniques. Lossless data compression algorithms allow exact reconstruction of original

data from the compressed data. Lossy compression techniques does not allow perfect reconstruction of data but offers good compression ratio values relative to the lossless compression techniques.

B. General Audio Compression Architecture

The most common characteristic of audio signals is the existence of redundant information between adjacent samples. Compression tries to remove this redundancy and makes the data de-correlated. Typical audio compression system contains three basic modules to accomplish audio compression. First, an appropriate transform is applied. Second, the produced transform coefficients are quantized to reduce the redundant information; here, the quantized data hold errors but should be insignificant[1]. Third, the quantized values are coded using packed codes; this encoding stage changes the format of quantized coefficients values using one of the suitable variable length coding technique.

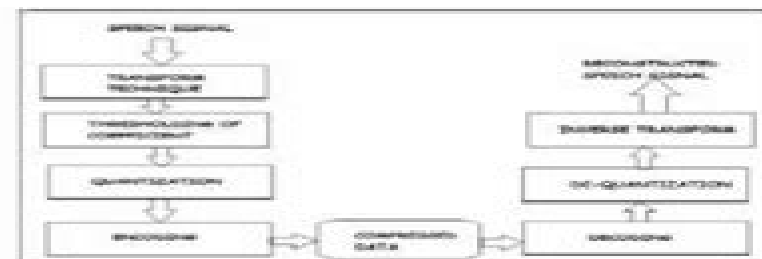


Fig1: General block diagram

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This book delves into Matlab Code For Dct In Audio Signal. Matlab Code For Dct In Audio Signal is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Matlab Code For Dct In Audio Signal, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Matlab Code For Dct In Audio Signal
 - Chapter 2: Essential Elements of Matlab Code For Dct In Audio Signal
 - Chapter 3: Matlab Code For Dct In Audio Signal in Everyday Life
 - Chapter 4: Matlab Code For Dct In Audio Signal in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Matlab Code For Dct In Audio Signal. The first chapter will explore what Matlab Code For Dct In Audio Signal is, why Matlab Code For Dct In Audio Signal is vital, and how to effectively learn about Matlab Code For Dct In Audio Signal.
 3. In chapter 2, the author will delve into the foundational concepts of Matlab Code For Dct In Audio Signal. This chapter will elucidate the essential principles that must be understood to grasp Matlab Code For Dct In Audio Signal in its entirety.
 4. In chapter 3, this book will examine the practical applications of Matlab Code For Dct In Audio Signal in daily life. The third chapter will showcase real-world examples of how Matlab Code For Dct In Audio Signal can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Matlab Code For Dct In Audio Signal in specific contexts. This chapter will explore how Matlab Code For Dct In Audio Signal is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Matlab Code For Dct In Audio Signal. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Matlab Code For Dct In Audio Signal.

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