

## Implementation of Image Compression Algorithm using MATLAB

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### ABSTRACT

In current scenario, Internet becomes a handy tool to everyone and everyone wants lot things in a very compact form so that less amount of data can be stored or captured in a very small space. As Internet is act as medium of transportation of documents (such as multimedia documents). In this paper, a compression technique is being represented to compress the on form of multimedia document such as image using MatLab. Since, image contains a lot of information in dot form and required a huge space on hard disk. The image compression technique used discrete cosine transform to deal with the real value during the compression of an image. Using DCT in compression leads to easy calculation of image data in frequency domain.

**Keywords:** Image compression, JPEG, DCT.

### I. INTRODUCTION

Video and image contains a lot of information and consumes huge storage space. Generally internet applications have less or very limited space. To overcome the space requirement image compression is must. This paper introduces the basic concept of data compression using Matlab. Which could be applied to modern image and video compression techniques. Basically, compression is done to reduce the data similarity. Discrete Cosine Transform is frequency domain technique. By applying DCT, the data in time (spatial) domain can be transformed into frequency domain.

In this paper an image compression algorithms are being used in Matlab. The necessary bandwidth is required to digitally represent the data in the form of signals. There are many existing applications in video and audio that made it inexpensive because its ability to deal with compressed signals. Compression technology can result in reduced transmission time. In this regard there is less data to be transmitted and decrease the storage requirements, again because there is less data.

There are two types of compression as follows:

**1. Lossy compression:** This is the technique in which higher compression ratios is achieved. Luckily, the majority of video and image processing applications do not require higher compression ratios. In these applications, lossy compression schemes can be used, achieving higher compression ratios.

**2. Lossless compression:** In many fields like medical systems, image losses can translate into costly medical mistakes; therefore lossless compression methods are used.

**DCT Compression:** DCT is a lossy compression scheme in which a  $M \times N$  image block is transformed from the spatial domain to the Discrete Cosine Transform domain. DCT decomposes the signal into spatial frequencies components called DCT coefficients. The lower frequency DCT coefficients appear toward the upper left-hand corner of the DCT matrix and the higher frequency coefficients are in the lower right-hand corner of the DCT matrix. The Human Visual System (HVS) is tolerant to errors in high frequency coefficients. HVS is not tolerant to lower frequency coefficients. So that the higher frequency components can be changed or quantized. This is done by the quantization technique.

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## **Table of Contents Implementation Of Image Compression Algorithm Using**

1. Understanding the eBook Implementation Of Image Compression Algorithm Using
  - The Rise of Digital Reading Implementation Of Image Compression Algorithm Using
  - Advantages of eBooks Over Traditional Books
2. Identifying Implementation Of Image Compression Algorithm Using
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Implementation Of Image Compression Algorithm Using
  - User-Friendly Interface
4. Exploring eBook Recommendations from Implementation Of Image Compression Algorithm Using
  - Personalized Recommendations
  - Implementation Of Image Compression Algorithm Using User Reviews and Ratings
  - Implementation Of Image Compression Algorithm Using and Bestseller Lists
5. Accessing Implementation Of Image Compression Algorithm Using Free and Paid eBooks
  - Implementation Of Image Compression Algorithm Using Public Domain eBooks
  - Implementation Of Image Compression Algorithm Using eBook Subscription Services
  - Implementation Of Image Compression Algorithm Using Budget-Friendly Options

6. Navigating Implementation Of Image Compression Algorithm Using eBook Formats
  - ePub, PDF, MOBI, and More
  - Implementation Of Image Compression Algorithm Using Compatibility with Devices
  - Implementation Of Image Compression Algorithm Using Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Implementation Of Image Compression Algorithm Using
  - Highlighting and Note-Taking Implementation Of Image Compression Algorithm Using
  - Interactive Elements Implementation Of Image Compression Algorithm Using
8. Staying Engaged with Implementation Of Image Compression Algorithm Using
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Implementation Of Image Compression Algorithm Using
9. Balancing eBooks and Physical Books Implementation Of Image Compression Algorithm Using
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Implementation Of Image Compression Algorithm Using
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Implementation Of Image Compression Algorithm Using
  - Setting Reading Goals Implementation Of Image Compression Algorithm Using
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Implementation Of Image Compression Algorithm Using
  - Fact-Checking eBook Content of Implementation Of Image Compression Algorithm Using
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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