

Empirical Evaluation of Coding and Inter Pixel Redundancy in still Image Compression

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Abstract

The main aim of this research work is to compress grayscale images efficiently using prediction and intensity-based image compression algorithms. Image compression is useful for removing the duplication in an image to store and transmit the data in an efficient form. This research work analyzes four new schemes for gray scale lossy image compression. Among the four schemes considered, two compressive approaches are designed for Prediction Based Image Compression (PBIC) level implementation. Third approach is designed for Intensity Based Image Compression (IBIC). Finally, the previously designed PBIC and IBIC schemes lead to an Integrated Encoder. All the considered method performances are analyzed using the performance metrics. These results are compared with JPEG 2000 which is a extensively used benchmark compression encoder. The outcome of all the proposed methods is also compared with modern encoders.

Keywords: Prediction based Image Compression, Intensity based Image compression, Intra Prediction, Modulus Transformation, Integrated Encoder, octagon based intra prediction, neighboring block, JPEG 2000

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1. Introduction

Visual information is of vital importance for mankind to perceive and understand the surrounding world. The saying "A picture is worth a thousand words" rightly expresses the amount of information contained in a single image. As the transmission and storage of every single bit in an image incurs a cost, the necessity of cost-effective image compression technique plays an important role. There are various compression methodologies that are designed in the last several decades. It starts with grayscale image, followed by color image and the research has its path in video compression (both grayscale and color). Predictive coding can be made superiorly with the help of the compression ratio. Some researchers describe prediction-based lossless compression [1-5]. The research work that was proposed

previously for grayscale image compression is analyzed in this paper.

The following research works are considered in this paper:

- An Octagon Based Intra Prediction (OBIP) scheme in PBIC method.
- N-Modulus Transformation (NMT) in PBIC method.
- IBIC – The impact of pixel values over compression is studied by dividing the image into high and low intensity values. Various existing compression methods are analyzed in this method.
- The Integrated Encoder.

The results of the above four methods are analyzed and compared with JPEG 2000 and recent encoders.

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Table of Contents Still Image Compression Proceeding Ser

1. Understanding the eBook Still Image Compression Proceeding Ser
 - The Rise of Digital Reading Still Image Compression Proceeding Ser
 - Advantages of eBooks Over Traditional Books
2. Identifying Still Image Compression Proceeding Ser
 - 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 Still Image Compression Proceeding Ser
 - User-Friendly Interface
4. Exploring eBook Recommendations from Still Image Compression Proceeding Ser
 - Personalized Recommendations
 - Still Image Compression Proceeding Ser User Reviews and Ratings

- Still Image Compression Proceeding Ser and Bestseller Lists
- 5. Accessing Still Image Compression Proceeding Ser Free and Paid eBooks
 - Still Image Compression Proceeding Ser Public Domain eBooks
 - Still Image Compression Proceeding Ser eBook Subscription Services
 - Still Image Compression Proceeding Ser Budget-Friendly Options
- 6. Navigating Still Image Compression Proceeding Ser eBook Formats
 - ePub, PDF, MOBI, and More
 - Still Image Compression Proceeding Ser Compatibility with Devices
 - Still Image Compression Proceeding Ser Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Still Image Compression Proceeding Ser
 - Highlighting and Note-Taking Still Image Compression Proceeding Ser
 - Interactive Elements Still Image Compression Proceeding Ser
- 8. Staying Engaged with Still Image Compression Proceeding Ser
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Still Image Compression Proceeding Ser
- 9. Balancing eBooks and Physical Books Still Image Compression Proceeding Ser
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Still Image Compression Proceeding Ser
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Still Image Compression Proceeding Ser
 - Setting Reading Goals Still Image Compression Proceeding Ser
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Still Image Compression Proceeding Ser
 - Fact-Checking eBook Content of Still Image Compression Proceeding Ser
 - 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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