

Design & Implementation of Digital Image Transformation Algorithms

Joe G. Saliby

Researcher, Lebanese Association for Computational Sciences, Beirut, Lebanon

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I. GRAYSCALE TRANSFORMATION

Grayscale is a range of shades of gray without apparent color. The darkest possible shade is black, which is the total absence of transmitted or reflected light. The lightest possible shade is white, the total transmission or reflection of light at all visible wavelengths. Intermediate shades of gray are represented by equal brightness levels of the three primary colors (red, green and blue) for transmitted light, or equal amounts of the three primary pigments (cyan, magenta and yellow) for reflected light [1].

In photography and computing, a grayscale digital image is an image in which the value of each pixel is a single sample, that is, it carries only intensity information. Images of this sort, also known as black-and-white, are composed exclusively of shades of gray, varying from black at the weakest intensity to white at the strongest. Grayscale images are distinct from one-bit bi-tonal black-and-white images, which in the context of computer imaging are images with only the two colors, black, and white. Grayscale images have many shades of gray in between. Grayscale images are also called monochromatic, denoting the presence of only one color.

ABSTRACT

In computer science, Digital Image Processing or DIP is the use of computer hardware and software to perform image processing and computations on digital images. Generally, digital image processing requires the use of complex algorithms, and hence, can be more sophisticated from a performance perspective at doing simple tasks. Many applications exist for digital image processing, one of which is Digital Image Transformation. Basically, Digital Image Transformation or DIT is an algorithmic and mathematical function that converts one set of digital objects into another set after performing some operations. Some techniques used in DIT are image filtering, brightness, contrast, hue, and saturation adjustment, blending and dilation, histogram equalization, discrete cosine transform, discrete Fourier transform, edge detection, among others. This paper proposes a set of digital image transformation algorithms that deal with converting digital images from one domain to another. The algorithms to be implemented are grayscale transformation, contrast and brightness adjustment, hue and saturation adjustment, histogram equalization, blurring and sharpening adjustment, blending and fading transformation, erosion and dilation transformation, and finally edge detection and extraction. As future work, some of the proposed algorithms are to be investigated with parallel processing paving the way to make their execution time faster and more scalable.

KEYWORDS: Algorithms, Digital Image Processing, Digital Image Transformation

A. Implementation

```
Image img = pictureBox1.Image;
Bitmap bitmap = new Bitmap(img);

// Cycling over all the pixels in the image
for (int i = 0; i < bitmap.Size.Width; i++)
{
    for (int j = 0; j < bitmap.Size.Height; j++)
    {
        Color color = bitmap.GetPixel(i, j); // Retrieves
        the color of a particular pixel
        int R = color.R; // since the image is 8-bit
        Grayscale
        if (intensityTrackbar.Value == 2)
        {
            int upperBound = 271; // 271-16 = 255
            int lowerBound = 0;
            for (int k = 1; k <= 16; k++)
            {
                upperBound = upperBound - 16;
                lowerBound = upperBound - 16;
                if (R <= upperBound && R > lowerBound)
                {
                    R = upperBound;
                }
            }
        }
    }
}
```

Digital Image Display Algorithms And Implementation

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Table of Contents Digital Image Display Algorithms And Implementation

1. Understanding the eBook Digital Image Display Algorithms And Implementation
 - The Rise of Digital Reading Digital Image Display Algorithms And Implementation
 - Advantages of eBooks Over Traditional Books
2. Identifying Digital Image Display Algorithms And Implementation
 - 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 Digital Image Display Algorithms And Implementation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Digital Image Display Algorithms And Implementation
 - Personalized Recommendations
 - Digital Image Display Algorithms And Implementation User Reviews and Ratings
 - Digital Image Display Algorithms And Implementation and Bestseller Lists
5. Accessing Digital Image Display Algorithms And Implementation Free and Paid eBooks
 - Digital Image Display Algorithms And Implementation Public Domain eBooks
 - Digital Image Display Algorithms And Implementation eBook Subscription Services
 - Digital Image Display Algorithms And Implementation Budget-Friendly Options
6. Navigating Digital Image Display Algorithms And Implementation eBook Formats

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