

- Consider a matrix A with size 4x4
$$\begin{bmatrix} 1 & 2 & 2 & 1 \\ 1 & 1 & 0 & 3 \\ 2 & 4 & 1 & 5 \\ 2 & 1 & 2 & 0 \end{bmatrix}$$

- Consider the elements in the window 3x3
$$\begin{bmatrix} 1 & 2 & 2 \\ 1 & 1 & 0 \\ 2 & 4 & 1 \end{bmatrix}$$

- Find the x-direction derivative: Subtract the first row from the Third row using the mask.

$$G_x = (z_7 + 2z_8 + z_9) - (z_1 + 2z_2 + z_3)$$

$$G_x(1,1) = (2 + (2*4) + 1) - (1 + (2*2) + 2) = 4$$

- Find the y-direction derivative: Subtract the first column from the Third column using the mask.

$$G_y = (z_3 + 2z_6 + z_9) - (z_1 + 2z_4 + z_7)$$

$$G_y(1,1) = (2 + (2*0) + 1) - (1 + (2*1) + 2) = -2$$

- Find the Gradient:

$$G_x^2 = 16, \quad G_y^2 = 4$$

$$\Delta f = [16 + 4]^{1/2} = (20)^{1/2}, \text{ ie. } f(1,1) = 4.4721.$$

The procedure is done for the whole image matrix.

Matlab Code For Sobel

Thomas Griffiths



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Table of Contents Matlab Code For Sobel

1. Understanding the eBook Matlab Code For Sobel
 - The Rise of Digital Reading Matlab Code For Sobel
 - Advantages of eBooks Over Traditional Books
2. Identifying Matlab Code For Sobel
 - 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 Matlab Code For Sobel
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matlab Code For Sobel
 - Personalized Recommendations
 - Matlab Code For Sobel User Reviews and Ratings
 - Matlab Code For Sobel and Bestseller Lists
5. Accessing Matlab Code For Sobel Free and Paid eBooks
 - Matlab Code For Sobel Public Domain eBooks
 - Matlab Code For Sobel eBook Subscription Services
 - Matlab Code For Sobel Budget-Friendly Options

6. Navigating Matlab Code For Sobel eBook Formats
 - ePub, PDF, MOBI, and More
 - Matlab Code For Sobel Compatibility with Devices
 - Matlab Code For Sobel Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Matlab Code For Sobel
 - Highlighting and Note-Taking Matlab Code For Sobel
 - Interactive Elements Matlab Code For Sobel
8. Staying Engaged with Matlab Code For Sobel
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matlab Code For Sobel
9. Balancing eBooks and Physical Books Matlab Code For Sobel
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matlab Code For Sobel
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Matlab Code For Sobel
 - Setting Reading Goals Matlab Code For Sobel
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Matlab Code For Sobel
 - Fact-Checking eBook Content of Matlab Code For Sobel
 - 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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