

# Digital Image Processing Using LabView

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## 1. Introduction

Digital Image processing is a topic of great relevance for practically any project, either for basic arrays of photodetectors or complex robotic systems using artificial vision. It is an interesting topic that offers to multimodal systems the capacity to see and understand their environment in order to interact in a natural and more efficient way.

The development of new equipment for high speed image acquisition and with higher resolutions requires a significant effort to develop techniques that process the images in a more efficient way. Besides, medical applications use new image modalities and need algorithms for the interpretation of these images as well as for the registration and fusion of the different modalities, so that the image processing is a productive area for the development of multidisciplinary applications.

The aim of this chapter is to present different digital image processing algorithms using LabView and IMAQ vision toolbox. IMAQ vision toolbox presents a complete set of digital image processing and acquisition functions that improve the efficiency of the projects and reduce the programming effort of the users obtaining better results in shorter time. Therefore, the IMAQ vision toolbox of LabView is an interesting tool to analyze in detail and through this chapter it will be presented different theories about digital image processing and different applications in the field of image acquisition, image transformations.

This chapter includes in first place the image acquisition and some of the most common operations that can be locally or globally applied, the statistical information generated by the image in a histogram is commented later. Finally, the use of tools allowing to segment or filtrate the image are described making special emphasis in the algorithms of pattern recognition and matching template.

## 2. Digital image acquisition

We generally associate the image to a representation that we make in our brain according to the light incidence into a scene (Bischof & Kropatsch, 2001). Therefore, there are different variables related to the formation of images, such as the light distribution in the scene. Since the image formation depends of the interaction of light with the object in the scene and the emitted energy from one or several light sources changes in its trip (Fig. 1). That is why the

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## **Table of Contents Digital Image Processing Using Labview Researchgate**

1. Understanding the eBook Digital Image Processing Using Labview Researchgate
  - The Rise of Digital Reading Digital Image Processing Using Labview Researchgate
  - Advantages of eBooks Over Traditional Books
2. Identifying Digital Image Processing Using Labview Researchgate
  - 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 Processing Using Labview Researchgate
  - User-Friendly Interface
4. Exploring eBook Recommendations from Digital Image Processing Using Labview Researchgate
  - Personalized Recommendations
  - Digital Image Processing Using Labview Researchgate User Reviews and Ratings
  - Digital Image Processing Using Labview Researchgate and Bestseller Lists

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