Digital Image Processing (730474) Lecture 2

Outline of the Lecture

➢ Fundamental Steps in Digital Image Processing.
➢ Components of a Digital Image Processing System.

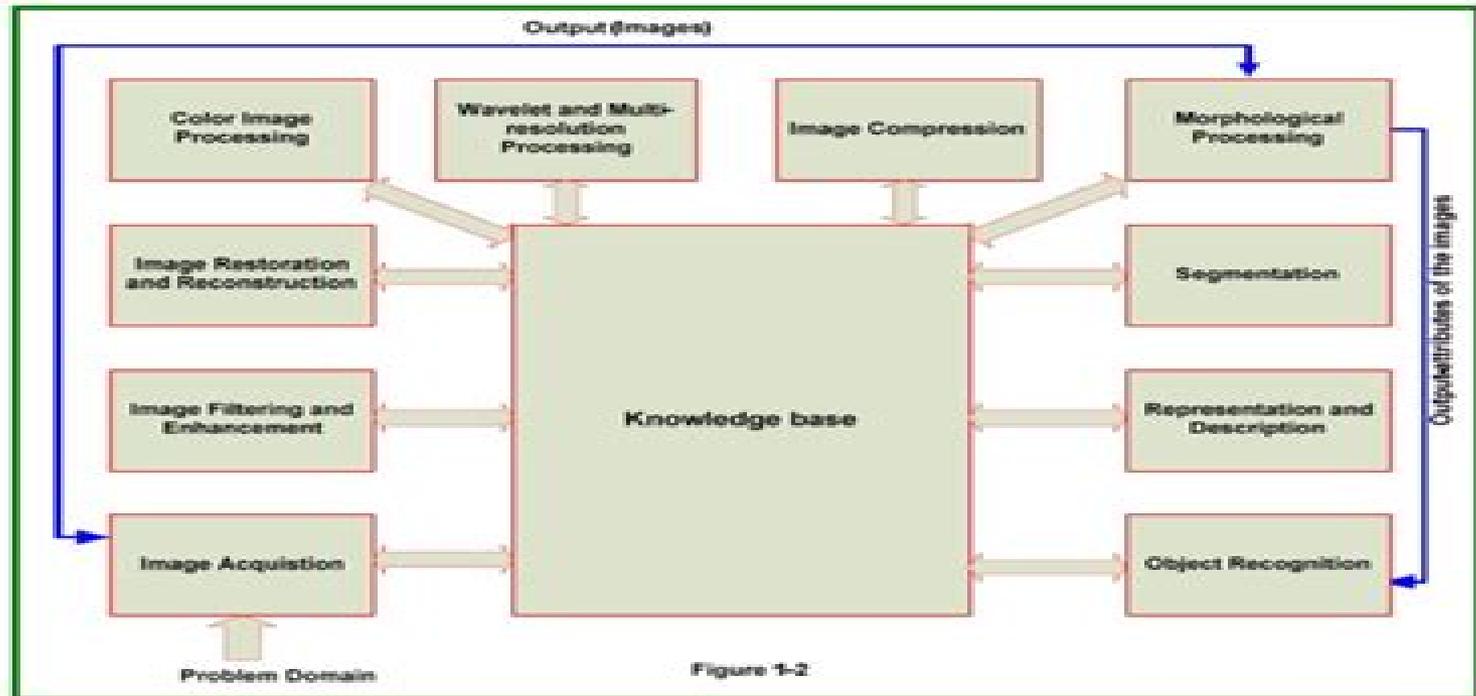## Fundamental Steps in Digital Image Processing

Figure 1-2

Step 1. Image Acquisition:

- In this step, the image is captured by a **sensor** (such as a monochrome or color TV camera) and **digitized**, if the output of the camera or sensor is not already in digital form- an **analog-to-digital** converter (**ADC**) digitizes it.
  - ○ **Camera**:
  Camera consists of 2 parts:
    ➢ A **lens** that collects the appropriate type of radiation emitted from the object of interest and that forms an image of the real object.

Lecture 2 Fundamental Steps In Digital Image Processing

Minjie Lin

Lecture 2 Fundamental Steps In Digital Image Processing:

The book delves into Lecture 2 Fundamental Steps In Digital Image Processing. Lecture 2 Fundamental Steps In Digital Image Processing is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Lecture 2 Fundamental Steps In Digital Image Processing, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

   - Chapter 1: Introduction to Lecture 2 Fundamental Steps In Digital Image Processing
   - Chapter 2: Essential Elements of Lecture 2 Fundamental Steps In Digital Image Processing
   - Chapter 3: Lecture 2 Fundamental Steps In Digital Image Processing in Everyday Life
   - Chapter 4: Lecture 2 Fundamental Steps In Digital Image Processing in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Lecture 2 Fundamental Steps In Digital Image Processing. This chapter will explore what Lecture 2 Fundamental Steps In Digital Image Processing is, why Lecture 2 Fundamental Steps In Digital Image Processing is vital, and how to effectively learn about Lecture 2 Fundamental Steps In Digital Image Processing.

3. In chapter 2, the author will delve into the foundational concepts of Lecture 2 Fundamental Steps In Digital Image Processing. The second chapter will elucidate the essential principles that need to be understood to grasp Lecture 2 Fundamental Steps In Digital Image Processing in its entirety.

4. In chapter 3, this book will examine the practical applications of Lecture 2 Fundamental Steps In Digital Image Processing in daily life. The third chapter will showcase real-world examples of how Lecture 2 Fundamental Steps In Digital Image Processing can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Lecture 2 Fundamental Steps In Digital Image Processing in specific contexts. The fourth chapter will explore how Lecture 2 Fundamental Steps In Digital Image Processing is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Lecture 2 Fundamental Steps In Digital Image Processing. This chapter will summarize the key points that have been discussed throughout the book.
   This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Lecture 2 Fundamental Steps In Digital Image Processing.

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