

# 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

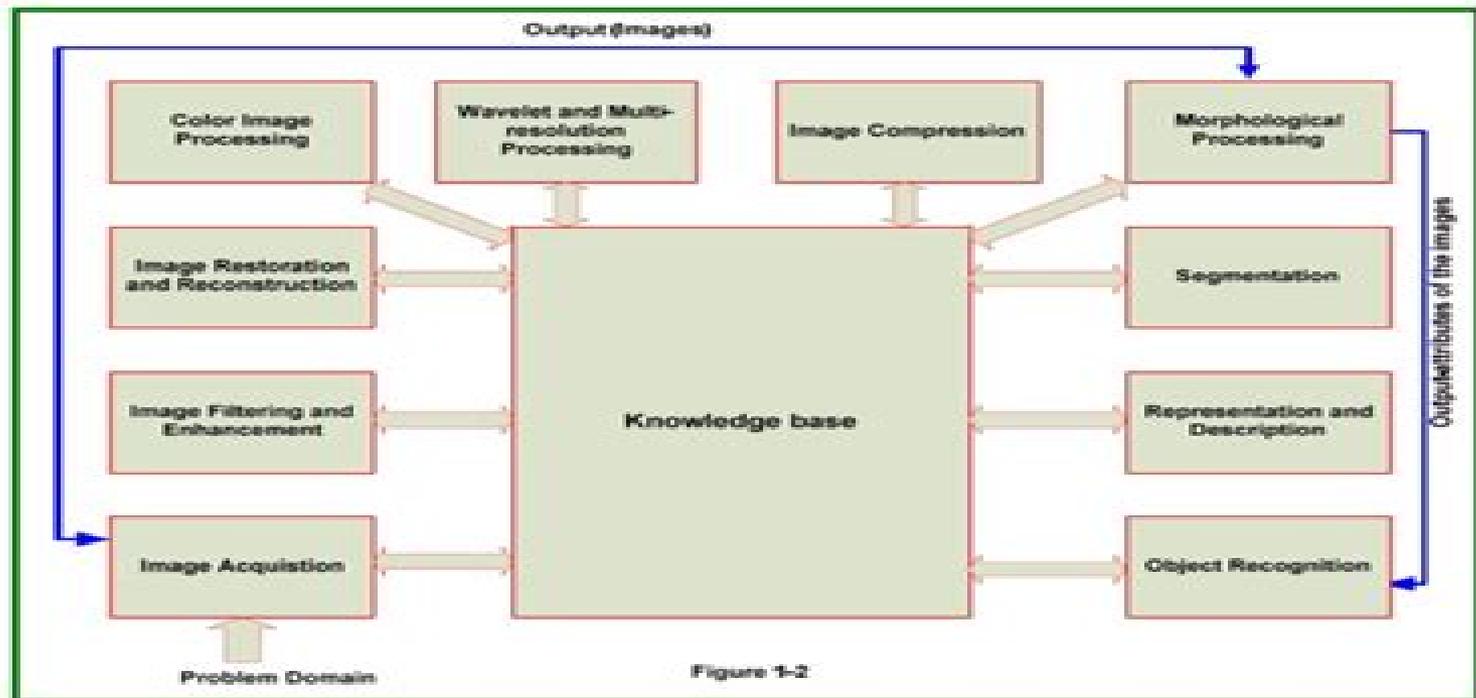


Figure 1-2

### 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

**Jianjun Gao**



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