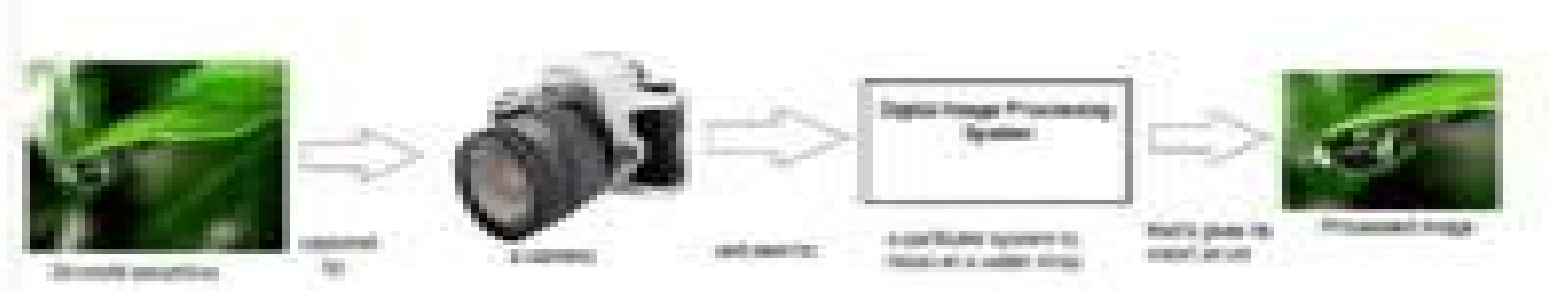


# DIGITAL IMAGE PROCESSING

Digital image processing deals with manipulation of digital images through a Digital Computer. It is a subfield of signals and systems that focuses particularly on images. But the user is developing a computer system that is able to perform processing on an image. The input of that system is a digital image, and the system produces that image using different algorithms, and gives an image as an output. The most common software is Adobe Photoshop. It is one of the widely used applications for processing digital images.

## How it works.



In the above figure, an image has been captured by a camera and has been sent to a digital system to remove all the other details, and just focus on the main thing by removing its noise. A way that the quality of the image remains the same.

## AUDIENCE

This tutorial gives you the knowledge of widely used methods and procedures for manipulating digital images for image enhancement and restoration and performing operations on images such as blurring, zooming, resizing, etc. It also focuses on the understanding of how the human vision works. Have the human eye understand the main things, and have the brain interpret those images. The tutorial also covers some of the important concepts of signals and systems such as sampling, quantization, convolution, frequency domain, etc.

## PREREQUISITES

### Signals and systems

Since DSP is a subfield of signals and systems, it is useful (or good) if you already have some knowledge about signals and systems, but it is not necessary. But you must have some basic concepts of digital electronics.

### Calculus and probability

Basic understanding of calculus, probability and differential equations is also required for better understanding.

### Basic programming skills

# Digital Image Processing Tutorialspoint

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Bunde, Mahendra Lalwani, Marcin  
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