

# DOWNLOAD PDF A GUIDE TO IMAGE PROCESSING AND PICTURE MANAGEMENT

## Chapter 1 : Image Retrieval Using Feature Extraction - Student Project Guide

*The value of convenient picture management has been appreciated for many years, and many useful books and articles have been written on the subject. However, the advent of an electronic means of managing pictures and 'images' has drastically changed and improved the possibilities for such management.*

In this case the value , , each represents an individual pixel value. The dimensions of the picture is actually the dimensions of this two dimensional array. Relationship between a digital image and a signal If the image is a two dimensional array then what does it have to do with a signal? In order to understand that , We need to first understand what is a signal? Signal In physical world, any quantity measurable through time over space or any higher dimension can be taken as a signal. A signal is a mathematical function, and it conveys some information. A signal can be one dimensional or two dimensional or higher dimensional signal. One dimensional signal is a signal that is measured over time. The common example is a voice signal. The two dimensional signals are those that are measured over some other physical quantities. The example of two dimensional signal is a digital image. We will look in more detail in the next tutorial of how a one dimensional or two dimensional signals and higher signals are formed and interpreted. Relationship Since anything that conveys information or broadcast a message in physical world between two observers is a signal. That includes speech or human voice or an image as a signal. Not only this , but the way a digital camera works, as while acquiring an image from a digital camera involves transfer of a signal from one part of the system to the other. How a digital image is formed Since capturing an image from a camera is a physical process. The sunlight is used as a source of energy. A sensor array is used for the acquisition of the image. So when the sunlight falls upon the object, then the amount of light reflected by that object is sensed by the sensors, and a continuous voltage signal is generated by the amount of sensed data. In order to create a digital image , we need to convert this data into a digital form. This involves sampling and quantization. They are discussed later on. The result of sampling and quantization results in an two dimensional array or matrix of numbers which are nothing but a digital image. Developing a system that scans human face and opens any kind of lock. This system would look something like this. Computer graphics Computer graphics deals with the formation of images from object models, rather than the image is captured by some device. Generating an image from an object model. Such a system would look something like this. Artificial intelligence Artificial intelligence is more or less the study of putting human intelligence into machines. Artificial intelligence has many applications in image processing. Signal processing Signal processing is an umbrella and image processing lies under it. The amount of light reflected by an object in the physical world 3d world is pass through the lens of the camera and it becomes a 2d signal and hence result in image formation. This image is then digitized using methods of signal processing and then this digital image is manipulated in digital image processing.

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*Part 1: Image Processing Techniques directly transferred to the computer. A digital image is represented as a two-dimensional data array where each data point is called a picture element or pixel.*