

Image processing is a method to convert an image into digital form and perform some operations on it, in order to get an enhanced image or to extract some useful information from it. It is a type of signal dispensation in which input is image, like video frame or photograph and output may be image or characteristics associated with that image. **Usually Image Processing system includes treating images as two dimensional signals while applying already set signal processing methods to them**. It is among rapidly growing technologies today, with its applications in various aspects of a business. Image Processing forms core research area within engineering and computer science disciplines too. Image processing basically includes the following three steps. Importing the image with optical scanner or by digital photography. **Analyzing and manipulating the image which includes data compression and image enhancement and spotting patterns that are not to human eyes like satellite photographs**. Output is the last stage in which result can be altered image or report that is based on image analysis. **The two types of methods used for Image Processing are Analog and Digital Image Processing**. Analog or visual techniques of image processing can be used for the hard copies like printouts and photographs. Image analysts use various fundamentals of interpretation while using these visual techniques. The image processing is not just confined to area that has to be studied but on knowledge of analyst. Association is another important tool in image processing through visual techniques. So analysts apply a combination of personal knowledge and collateral data to image processing. **Digital Processing techniques help in manipulation of the digital images by using computers**. As raw data from imaging sensors from satellite platform contains deficiencies. To get over such flaws and to get originality of information, it has to undergo various phases of processing. **The three general phases that all types of data have to undergo while using digital technique are Pre- processing, enhancement and display, information extraction**.



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