

MEDICAL IMAGE ANALYSIS USING BIG DATA MINING MODEL

The technology of Image processing encompasses by highly utilizing the computer proficiency to analyze the digital images i.e. the images generated using a computer. Image processing is used in numerous ways in many of the important technological-related fields like Oceanography, currency recognition, Medical imaging, remote image transmission, fake-note deduction, Satellite imaging etc. The Digitized image is analyzed and manipulated to improve the image's eminence. Separation of images at present is a most domineering phase in image processing which is popularly called as 'Image Segmentation'. The process of Image segmentation involves separating the required objects from an existing image. Thus the process of image segmentation is desirable to analyse some specific objects from an image instead of examining an intact image.

In the present, Image segmentation plays a vital role in deducting the fake-notes, recognizing the original currencies etc. Interestingly it is worth noting that many of the image processing techniques were involved in separating the distinct color levels of the images and making them into two-dimensional signals. Image processing is also used for processing those distinct color levels into three-dimensional signals with the third-dimension. The resultant signals or features extracted by processing the images are analyzed to incur some knowledge and take decisions.

Image processing takes images as input and image processing techniques are used to process the images and the output is modified images, video, or collection of text, or features of the images. The resultant output by most image processing techniques creates a huge amount of data which is categorized as Big-data. In this technique, bulky information is processed and stored as either structured or unstructured data as a result of processing images through computing techniques.

In proposed, Big Data analytics for mining knowledge from data created through image processing techniques has a huge potential in sectors like education, government organizations, healthcare institutions, manufacturing units, finance and banking, centers of retail business. This research focuses on highlighting the recent innovations made in the field of image processing and Big Data analytics. The integration and interaction of the two broad fields of image processing and Big Data have great potential in various areas.