A Perlustration of Various Image Segmentation Techniques

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Abstract

Image segmentation plays the main role in image processing. Segmentation defines as a process of splitting an image into multiple parts or multiple regions in order to analyze them. The aim of segmentation is to modify an image in such a way so that it can easy to analyze as well as understand. To analyze the different type of an Image in image processing, image segmentation plays a key step in it. The purpose of segmentation is to find out the meaningful information from an image. Image segmentation is also used to differentiate the various objects that are occurring in an image. Several images Segmentation techniques have been developed due to its importance in image processing. These segmentation techniques are also useful to make an image smooth as well as easy to evaluate. There are many techniques in image segmentation process and these techniques are Edge based, Region based, Thresholding based, ANN based, Fuzzy based, clustering based and watershed based that are discussed in this paper.

References


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Index Terms

Computer Science

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Keywords

Segmentation, Gray Histogram, Gradient, Region Growing, watershed transform, Global and Local thresholding.