Abstract

Edge is a basic feature of image. The image edges include rich information that is very significant for obtaining the image characteristic by object recognition. Edge detection refers to the process of identifying and locating sharp discontinuities in an image. So, edge detection is a vital step in image analysis and it is the key of solving many complex problems. In this paper, the main aim is to study the theory of edge detection for image segmentation using various computing approaches based on different techniques which have got great fruits.

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A study of Edge Detection Techniques for Segmentation Computing Approaches


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A study of Edge Detection Techniques for Segmentation Computing Approaches

Domain

Index Terms

Computer Science
Soft Computing

Key words

Image Segmentation

Edge detection

Fuzzy logic
Genetic Algorithm
Neural network
Mathematical morphology
Wavelet Transform