Abstract

Image Segmentation is an essential technique in image processing to distinguish important objects from unnecessary background substrates. Most of the image segmentation methods are based on the “Cloud Histogram” or Density Variation Concept, which cannot be capable to work with individual value of the histogram of an image. The “Hill Climbing” based
Multilevel Thresholding technique will overcome the limitation and it is applicable to the value of image histogram directly to recognize the absolute pitch point turn over. This technique is based on individual value of histogram column. The highest folds of the image histogram curve play a major role in graphical resolution and visual orientation. This research perspective is not given importance in the field of histogram clustering yet.

References

- St´ephanie Jehan-Besson, Michel Barlaud, Gilles Aubert, Olivier Faugeras; “Shape Gradients for Histogram Segmentation using Active Contours”; Proceedings of the Ninth IEEE International Conference on Computer Vision (ICCV 2003), Volume – 2.
- Source of Application image – “http://bio.ltsn.ac.uk/imagebank/default.aspx”.

Index Terms

Computer Science Signal Processing

Keywords

Image Segmentation Hill Climbing Algorithm
Differential Tangent Equation
Local Minima
Local Maxima