Abstract

Image processing is one of the real research regions in the most recent four decades. Numerous researchers have contributed very great algorithms and reported outstanding results. In this paper, state of matter search optimization based multilevel thresholding is implemented for the segmentation of gray scale Images. Set of standard gray level images are considered for image segmentation. The optimal multilevel threshold is found by maximizing the very popular objectives such as between class variance (Otsu method) and Kapur’s entropy. The outcomes are looked at with the aftereffects of the existing algorithms like IDSA, HSA, PSO, and BF. The outcomes uncover that the execution of state of matter search optimization algorithm based optimal multilevel threshold for image segmentation is better and has predictable execution than officially reported techniques.

References

1. S. Patra, R. Gautam, A. Singla, A novel context sensitive multilevel thresholding for image


Index Terms

Computer Science

Algorithms

Keywords

Multilevel thresholding, gray scale image segmentation, state of matter search optimization, qualitative and quantitative analysis