Dynamic Contrast Enhancement Algorithm

Abstract

This article describes a dynamic contrast enhancement technique to improve the visual quality of low contrast images. Also, this proposed algorithm is recovered the images from a blurred and darkness specimen of the given area of the images, and get better quality of the images. In this article, Image enhancement is performed using evolutionary algorithm (i.e. Genetic Algorithm). Here, a special type of sigmoid function is used for contrast enhancement. For the best match of this transformation function, genetic algorithm (GA) finds the optimum parameter value of the functions for image enhancement. Experimental result shows that the proposed method gives the better result in comparison to other conventional techniques.

References

- J. DiCarlo and B. Wandell. Rendering high dynamic range images. SPIE Electronic
Dynamic Contrast Enhancement Algorithm

Imaging, 3965:392–401, 2000.

Index Terms

Computer Science

Algorithms

Keywords

Image Enhancement Genetic algorithm Contrast Stretching Sigmoid Function