



Research Article



Fuzzy Based Clustering Algorithm for Face Recognition and Image Quality Enhancement

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ABSTRACT

In this paper, we presented a new approach on Fuzzy C-means Clustering Algorithm for improving its performing over k-means clustering and enhanced k- means clustering. Performance evaluation of the proposed Fuzzy C-Means clustering algorithm in the application areas of face recognition, medical image enhancement. The experimental results clearly show that the Fuzzy C-Means clustering enhances the image quality comparatively better than K-Means and Enhanced K-Means Clustering. It is observed that recognition rate is approximately increased by 2-3%, compared to K-Means Clustering algorithm.

Keywords: Fuzzy C-means, Clustering Algorithm, Face Recognition, Daubechies wavelets, Medical Image Enhancement, Social Network Analysis.

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