

Abstract

Many method is used people for image enhancement like as equalization dan stretching. But this methods it's unsatisfied, so we use fuzzy method for modeling a image with fuzzy set as tool. For image enhancement is used histogram as basic for modeling a fuzzy in color image. HSV (Hue Saturation Value) color model is used as base of image enhancement with preserving H (Hue) and changing S (Saturation) and V (Value) it can be possible to image enhancement. A membership function of Gaussian is used for modeling a image. And a intensification operator is used for image enhancement. Where contains two parameters, they are intensification parameter (t) and crossover (co), both of them has different function. Color image enhancement can viewed when index of fuzziness and entropy is reduced. Output from fuzzy intensification method will compared with two conventional methods, like as histogram equalisation and stretching with use MOS (Mean Opinion Score) as performance. Result of MOS, this method is better.

Keywords: fuzzy set, hue, saturation, value, membership function, Gaussian, intensification parameter, crossover, equalisation, stretching and MOS.