

Abstract

Image processing usually used in digital images. It's because the image has been taken before are not always producing a good image, such as a blur or hazy image. Images like this needs to be fixed, in this case by modifying its contrast. Most people uses conventional techniques to improve image's contrast. But unfortunately this technique doesn't provide a better result as what people has been expected.

In this final project, there are several testing and comparisons between conventional technique, by using contrast stretching and histogram equalization; and fuzzy technique, by using intensification operator and Fuzzy Expected Value(FEV). Contrass Enhacement has been developed by using Delphi 7 as the tool. Several tests by calculating deviation, calculating saturation, and Mean Operation Score(MOS) has been done in this final project.

From MOS can conclude that fuzzy technique with intensification operator only only good for high contrast images. While from deviation calculation can be conlude that conventional technique and fuzzy technique could gives mostly high level contrast compared to the original images. And FEV method cannot be use in image contrastion technique, but more accurately it can be use in image saturation enhancement.

Keywords : Fuzzy technique, conventional technique, deviation value, and MOS.