

## Abstract

Nowadays, foggy images are very often found in areas that are integrated with the highlands. One such example is the mountainous area. Mountainous areas have a lot of foggy images, but foggy images are also disliked by many people around, because they damage the quality of the image itself. Poor image quality often occurs because of the amount of noise in the image. Noise is the result of an error in the image acquisition process which results in pixel values not reflecting the actual intensity of the real scene.

Elimination of noise in an image can be done with Image Enhancement. Image enhancement is often used in image improvement because based on existing research, image enhancement results in better or clearer image quality than before. Fog removal can use several methods such as Dark Channel Prior and Bilateral Filtering. Noise removal and image enhancement such as contrast, color and others can be done using several methods such as Histogram Equalization. In this study image enhancement and Fog removal were carried out in the hope that it could provide clearer picture results in foggy weather conditions.

**Keywords :** *Foggy Image, Plateau, Mountain, Noise, Noise Removal, Haze Removal, Image Processing, Image Enhancement.*