

Abstract

Some images sometimes have noise (noise) that makes the image unclear or less good to see. Isotropic and anisotropic equations are equations that are expected to eliminate noise in the image. Imagery that has been through the isotropic and anisotropic process is then compared by the clear, detailed and good category obtained from the respondents. In addition to the categorization, the image will be compared in terms of its PSNR value (Peak Signal to Noise Ratio). In the isotropic and anisotropic comparisons obtained for the categories of images clearly can be seen from the results of illumination with the image results for isotropic gain 9% and anisotropic gain 91%. Furthermore, for the detail picture category can be seen from the margin on the result of the image that has been processed for isotropic get 7% and anisotropic get 93%. Then the good image category can be seen from the respondents who prefer the image results using isotropic or anisotropic equations that obtain isotropic 14% and anisotropic 86%. The conclusion is that anisotropic equations are superior in all three categories.

Keywords: Anisotropic, Isotropic diffusion and PSNR.