

ABSTRACT

APPLICATION FOR ENHANCEMENT IMAGE CONTRAST WITH THRESHOLDING METHOD AND BATCH PROCESSING FEATURES

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Computer vision is a scientific field that aims to gain a detailed understanding of visual data. Sometimes, images processed by computer vision have conditions that are difficult to analyze both in terms of lighting and poor image detail, so further processing is necessary to obtain better image quality. One of them is increasing the contrast to facilitate visual observation, and is part of important part of image pre-processing, which aims to make images easier to analyze and computationally process. The method applied to increase image contrast in this case is thresholding, which processes pixel intensity segmentation by setting a threshold value on image pixels. The threshold value determines the increase in image contrast, and users can adjust it to increase image contrast. The application that is built has a group processing feature (batch processing). With this feature a number of images are placed in one folder and processed at the same time. The output of the research was successful in increasing the contrast of images that had conditions that were difficult to analyze both in terms of lighting and poor image detail.

Keywords: *Computer Vision, Image Contrast, Thresholding, Batch Processing*

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