# ABSTRACT

Military uniforms have distinctive features of color and pattern, they can be used as identification in the battlefield so that personnel can recognize their friend each other. This present research has been conducted on a uniform military personnel based image processing uses feature extraction of color and shape methods. Color extraction feature uses percentage of hue color deployment as parameters which obtained after changing RGB image (Red Green Blue) into HSV image (Hue Saturation Value). For shape extraction feature using eccentricity and metric values for parameters was obtained after performing segmentation first which consists of some processes namely grayscale, contrast adjustment, binarization, and labeling. As a results, these systems were able to identify Malvinas type and other type image with accuracy rate of 20% using color extraction feature and 92,075% using shape extraction feature.

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*Keyword:* Military Personnel Uniform, Image Processing, Color Extraction Feature, and Shape Extraction Feature