Klasifikasi Bangun Datar dengan Metode Convolutional Neural Network dan Edge detection

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Abstract
Drawing is one of the creative activities that children can do. One of the media to increase creativity is digital games. This study describes the use of Convolutional Neural Network (CNN), edge detection, augmentation, segmentation, and evaluation in image processing. This study aims to combine these techniques to classify flat wake objects in images into different classes, such as squares, triangles, and circles, the authors use 700 datasets for testing. By using a combination of CNN, edge detection, augmentation, segmentation, and evaluation methods, flat shape object classification can be performed with high accuracy and reliability. This research can also provide results that can be used for applications in classifying strokes into flat shapes. The output of this research is as one of the applications for predicting spatial shapes for children.

Keywords: CNN, Edge Detection, Augmetation, Segmentation, Evaluation.