

OBJECT DETECTION IN PICTURES
USING ROBUST ALGORITHM *SPEEDED-UP FEATURE*
(SURF)

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ABSTRACT

Feature detection is a method to retrieve the abstract information called feature on an image and compare whether the feature is on another image or not. One application is the detection of an object detection feature. This study aims to describe how to detect visual object at high speed, which is applied to the detection of the license plate issue. In this study, developed the application to detect the number plate that can be used on the vehicle, using the algorithm speeded up robust features (SURF).

SURF (*speeded-Up Robust Features*) algorithm itself is (Bay H et al, 2006) aims to detect the local features of an image with reliable and fast. The algorithm is partly inspired by the SIFT algorithm (Scale-invariant feature transform), especially at this stage of scale space representation (LoweDG, 1999). SURF algorithm using integral image merging algorithm (*integral image*) and blob detection based on the determinant of the Hessian matrix

Kata kunci : *Point, Citra, Speeded-Up Robust Feature(SURF).*