

Abstract

Edge detection is one technique of image processing to find edge from picture, edge is center change at area gray-level from highest to low value. Edge detected will give colour which light while another area will become dark.

There are many techniques to detect edge which can be applied, one of them is with embedded confidence. In Edge Detection with Embedded Confidence, edge is found based on two parameters: confidence, namely edge confidence and gradient magnitude confidence, gotten from result of calculation of gradient value, magnitude and orientation of edge from picture.

In the final task, the implementation of edge detection with embedded confidence, to detect edge in pictures having different edge patterns, then in measuring resistance from noise. Based on the result of examination, objectively and subjectively, its performance in detecting edge based on the value of MOS is good, for its resilience to noise measured based on good enough FOM.

Keyword.: Embedded confidence, edge confidence, gradient magnitude confidence, gradient magnitude, orientation of edge, MOS, FOM