

ABSTRACT

Banknotes recognition machine, using ordinary characteristic of the banknotes itself like size, texture, and colors. But, every banknotes has their own characteristic like picture of heroes or symbol of Bank Indonesia in every Indonesian Rupiah banknotes.

To maximize characteristic in Indonesian Rupiah banknotes, a method that effective and efficient is needed to detect it. The method that this research offer is with image processing, Template matching method for precisely.

The result of this research is a banknotes recognition hardware that can recognize nominal of Indonesian Rupiah banknotes and detect its authenticity. This research will research 2 function of Template matching method, which is, Corelation Coefficient, and Cross Correlation.

Keywords: Image processing, Banknotes Recognition, Template matching