

ABSTRACT

The rapid development of science and technology, greatly affecting the human life Therefore created a system to detect cats with the aim that the common people can distinguish the type of cat. This detection using *Template Matching and Local Binary Pattern Histogram (LBPH)*. *Template matching* is a technique in digital image processing to find small parts of the image that match the image template. The energy of light emitted from a form falls on the retina of the eye and is converted into neural energy which is then sent to the brain. *LBPH* works by dividing the image into several sections, then extracting feature to get the histogram value by converting each pixel from image into thresholding with 3x3 size with middle one pixel taken to be the comparator. Then there is a search between the templates. Research on this fully automatic in face recognition has begun from the 1960s, where features such as the eyes, ears, nose, and mouth of the face image were located. template matching is one of the ideas used to explain how our brain recognizes forms or patterns. Templates in the context of pattern recognition refer to internal constructs which, if matched with a sensing stimulus, lead to the recognition of an object. Or pattern recognition occurs when there is a match between the sensory stimulus and the internal mental form

Keywords :*Image Processing, Object Detection, Haarcascade, Template Matching, Match, Local Binary Pattern Histogram.*