

## **Abstract**

The concept of pattern recognition (Pattern Recognition) has become increasingly recognized as an important factor in the design of a modern computerized information. Based on these facts, the need for the creation of a pattern recognition system is very high. There are lots of applications and development techniques are included in the concept of pattern recognition. One of the systems that can be developed is a character recognition (Character Recognition). The character recognition system known as *sebutan* OCR (*Optical Character Recognition*). OCR in this paper uses VCC (*Vertex Chain Code*) and SVM (*Support Vector Machine*) and is offline. VCC is used to perform the extraction process by identifying characteristics of each contour shape according to the specified cell. SVM is used to perform the classification process after the process of feature extraction. Tests performed to see the effect of the use of VCC with SVM to improve OCR performance. The test results by using offline handwriting has a performance up to 97,25%.

**Kata kunci:** OCR, *Vertex Chain Code*, *Support Vector Machine*