Abstract

Sign language are the languages spoken by deaf person to communicate, but there are still many people who do not yet understand sign language, therefore a sign language recognition system is required. In this research, sign language recognition was developed using Local Binary Pattern for feature extraction and for classification process used k-Nearest Neighbors and Support Vector Machine methods. The LBP method is chosen on the sign language recognition system because it is reliable in performing texture analysis [8], overcoming scaling and blurring images [4]. And the process of classification by the KNN method was chosen because of its simple implementation [13]. While, the SVM method was chosen because it is reliable in classifying data. F1-Score for this sign language system is 99.84

Keywords: Sign Language, Local Binary Pattern, k-Nearest Neighbors, Support Vector Machine.