

ABSTRACT

Sign language fingerspelling have 26 letters, and several letters have a similiar shapes. Consequently, people who do not learn it difficult to distinguish sign language fingerspelling, so it's difficult to communicate between deaf people and not. Therefore, we need classification system for sign language classification for not deaf people to know and learn about sign language fingerspelling. Naïve Bayes method is elected because this method using probablistic for handle data that has ambiguity. Aim this research is to analyze sign language fingerspelling classification, developed with HOG feature extraction, PCA for dimension reduction, and Naïve Bayes for classification. The result of this research is performance system accuration with value 95.98%, with principal component = 125 and cell size in HOG is 32x32

Keyword : letter, sign language, system, classification, Naive Bayes