ABSTRACT

In Javanese and also in many languages, the incorrect pronunciation cause people get difficulty in understanding or grasping the intended meaning. Usually, when people want to study the pronunciation of Javanese correctly, they always need other people to see its correctness. Beside listening method, there aren’t parameters used for classifying the pronunciation correctness.

In this study, it will be presented the classification approach of reading errors made by first year elementary school students as the beginner in learning Javanese. For this purpose, voice recording of correct and incorrect pronunciation done by 35 students is conducted. Some speeches of correct and incorrect pronunciation are used as training data which then produce a model. In this case, Linear Predictive Coding (LPC) is used to obtain formant as a feature and Support Vector Machines (SVM) is used for the formation of structure classification as a model.

The structure model produced is used for the testing of test data. In this classification experiment, Receiver Operating Characteristic (ROC) is used, and the best classification method is SVM with linear kernel with a score threshold of 30 can be obtained. This classification method produces False Positive Rate (FPR) = 0.1 and True Positive Rate (TPR) = 0.98.

Keywords: reading errors, Javanese, SVM.
***** Halaman ini sengaja dikosongkan *****