

ABSTRACT

Russian is a language that is widely used by people in the world for various purposes because it is ranked 6th in the world as the language with the most speakers. This is one of the foundations of this study in addition to the high interest of the world population to use and learn the language. Russian language does not use alphabets but uses Cyrillic script, where the font is different from the letters in general so there are some obstacles to learn, understand and pronounce it.

Capture to translate is one of the media that is built to be a solution of the problem, built on image processing, feature extraction process with edges detection findcontours method and artificial intelligence using Support Vector Machine (SVM) classification algorithm With Android mobile application interface that utilizes camera device as its input.

In this study, Capture to translate using the Support Vector Machine (SVM) classification algorithm is able to produce a level of word classification accuracy of 93.8% in three syllable based on test that has been done, which is related to preprocessing, feature extraction and classification.

Keywords : Russia, Cyrillic, Capture to Translate, Image Processing, edges detection, findcontours, Artificial Intelligence, Support Vector Machine (SVM), Android, Preprocessing.