

ABSTRACT

Development of smart phone today be waited many users. That caused some of smart phone have different feature. for example smart phone with android operating system. One of many feature of android is the open source operating system. So many programmer use that feature to make their own applications. One of application can developed by android operating system is OCR (Optical Character Recognition).

As we know OCR is a technology to convert the text image become text file, in this final project OCR technology so that image can be easier and more flexible to edit with electronic device because this technology can implemented based on android smart phone.

In this final project make a application used OCR technology with Tesseract Engine to convert the text image. Minimum error rate based on normal condition with CER 1.62% and WER 2.73%. for maximum error rate based on night condition with CER 28.69% and WER 44,87% and the average time of image processing is 7.7 second. So, my hope this application can improved by another research.

Key word : Android, OCR (*Optical Character Recognition*), *Tesseract Engine*, Text Image.