ABSTRACT

Natural language grow naturally to need communication for human being. Natural language not constructed for any obstruction to make easy processing. As consequence this is more difficult than language engineering where made by human for imitate natural language which use for human communication. The translator system can be transform source language text to the other language text. It will give contribute for academic and technology.

The English and Indonesian text translator system use rule based method, where this is using a structure language rules. The advantage from this system is can translate source language to the other language depend on grammar, so the output from this will have good structure sentences form. Research in this system implemented in cellular phones with use j2me program. The examination for this system to know effectiviness system in rules likes translation rules and grammar production rules. The examination put English sentence sample with have a right structure and wrong structure to know accuracy system for translating system and examinate time process to know how long translating system on progress.

Based on analysis, this sytem have been appropriate with English-Indonesian grammar rules. The accuracy system in this application up to 86,67% and time respon mean 2 second on progess depend on amount of word in sentence. So, this system is good and can be compete with the other translator system which have different or same method and platform.

Keywords : natural language processing, rule based translator, rule based method, English, Indonesian, j2me