Development of a Verb Group Machine Translation System

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Abstract

The study reported in this paper considered the translation of English language verbs’ group to Yorùbá language verbs’ group. The study considered the verb group issue among different issues that affect English to Yorùbá machine translation (EYMT) system. The EYMT is a project that started some years back. The EYMT project was experimented and then raised a lot of issues that raise questions. The Yorùbá language extinction is of concern to the speakers and researchers. The total dominance of English language over Yorùbá language in almost all human endeavours is a major challenge. The linguistic rules and the automata theory are considered for the elicitation of the theoretical framework. The re-write rules were designed for the two languages. The Unified Modelling Language (UML) were used to design the system software, and python programming language was used for the system implementation. The evaluation was carried out using mean opinion score approach. The expert average was 100 percent and that of the experimental subject respondents was 81 percent while that of the developed system was 95 percent.
References


Index Terms

Computer Science

Pattern Recognition

Keywords
Verb group, machine translation, Yorùbá language, re-write rules, acronyms