
ABSTRACT (IN ENGLISH)

The purpose of this thesis is to implement a platform for parsing texts in modern standard Arabic language, based on the HPSG formalism (Head-Driven Phrase Structure Grammar). The project aims to contribute to the efforts of providing the Arabic language with open tools and resources which can be used by Arabic NLP researchers. As regards *theoretical choices*, we have adopted HPSG formalism as a formal framework for all our developments. Concerning *the technical choices*, two guidelines were followed : (i) *Openness*, as much as possible, the platform should accept the addition of new resources (lexicons, rules, signs, etc) . Furthermore, the objective is, in the medium-term, to give a support for developing applications in Arabic NLP which can use a part or the whole parsing chain of the platform. (ii) *Open-source* guideline : a preference has been given to open-source development tools and languages, such as Java and XML. An *evaluation* has been made for measuring the platform performance in parsing Arabic texts. The results obtained confirmed that the basic syntactic structures of modern standard Arabic are well processed, notably the verbal and the nominal sentences.

Key-words: *Text Analysis, Natural language processing, Modern standard Arabic, HPSG, Software platform, Linguistic Resources, Parsers evaluation.*