Development of Lexicons Generation Tools for Arabic: Case of an Open Source Conjugator

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Abstract

The need for Automatic Natural Language Processing (NLP) in large dictionary resources continues to grow. The management of these linguistic knowledge should be taken into account because it is a fundamental element in the success and effectiveness of applications of NLP. Also, there is increasing interest for the development of reusable and independent lexical databases of a particular language application. Knowledge about a lexical database are complex, large sizes and various (i.e., phonological, morphological, syntactic, semantic and pragmatic), which has negatively influenced many national and international projects for the development of lexical databases (monolingual or multilingual). Among such lexical database entries, we find conjugated verbs. To this end, we present in this paper, our open source conjugator application of arabic verbs that we have developed in Java under the Android platform. This conjugator developed within the MISC laboratory is structured into several modules whose core is a morphological generator Root-Pattern.
References


Index Terms

Computer Science                  Pattern Recognition

Keywords

Natural Language Processing, Lexical databases, Arabic verbs conjugator, Root.