

Halabi D., Awajan, A., Fayyoubi E. 2021. Syntactic Annotation in the I3rab Dependency Treebank. The International Arab Journal of Information Technology, Vol. 18, No. 3A, Special Issue 2021. Pages 381-392. (ISI, Scopus)

Abstract

Arabic dependency parsers have a poor performance compared to parsers of other languages. Recently the impact of annotation at lexical level of dependency treebank on the overall performance of the dependency parses has been extensively investigated. This paper focuses on the impact of coarse-grained and fine-grained dependency relations on the performance of Arabic dependency parsers. Moreover, this paper introduces the annotation rules for I3rab dependency treebank. Experimentally, the obtained results showed that having an appropriate set of dependency relations improves the performance of an Arabic dependency parser up to 27.55%.