

## **Arabic Part-of-Speech Tagging**

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The study described in this paper belongs to the area of computational linguistics. Computational linguistics is a field of artificial intelligence dealing with the logical modeling of natural language from a computational perspective. It unites two areas that are quite different in appearance, computer science and natural languages. Computational linguistics might be considered as a synonym of automatic processing of natural language, since the main task of computational linguistics is just the construction of computer programs to process words and texts in natural language. There are many areas that may be considered as properly included within the discipline of computational linguistics. One of these areas is part-of-speech tagging (POS-tagging). POS-tagging is considered as a process for automatically assigning the proper grammatical tag to each word of a written text according to its appearance on the text. Thus, the task of POS-tagging is attaching appropriate grammatical or morpho-syntactical category labels to each word, token, symbol, abbreviation and even punctuation mark in a corpus. POS-tagging is usually the first step in linguistic analysis. Also, it is very important intermediate step to build many natural language processing applications. It could be used in spell checking and correcting systems, speech recognition systems, information retrieval systems and text-to-speech synthesis systems.