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Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	Ms_BJMCS_23055
Title of the Manuscript:	Using Arabic skeleton morphology and Maximum Entropy for Arabic Document classification
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	This paper presents a new method for Arabic text classification based on maximum entropy and morphological derivation for Arabic words. In fact, using maximum entropy for text classification is not new. The novelty is the combination of maximum entropy and Arabic word derivative morphology. Here are my major concerns about the presentation and development. • No details are given concerning the classification algorithm, which is a critical and non-trivial step. More explanation is required. • Although the method proposed is based on <i>maximum entropy</i>, this latter is not presented enough. I believe that <i>maximum entropy</i> needs to be addressed in more detail. • Contrary to what has been reported by the authors in the abstract, I think that the FAD word algorithm proposed (section IV) does not address non-vowel words. • In the introduction, the authors stated that the proposed construct an ontology for each word with its all possible derivatives and its relations, but in the section detailing the proposed algorithm, they does not mention any thing about the construction of the ontology • I do not agree with the authors that Arabic have semi-vowels. • The FAD word algorithm presented in the paper is not complete. Several forms of verbs and cases do not exist. Examples, verbs whose size more than 3 letters, derivations of verbs in past, future, imperative ... • Several derivation rules included in the algorithm seem incorrect, wrong or do not apply to all cases or forms of verbs.	• More explanation are added to the classification algorithm . • We added more detail for the maximum entropy. • The non vowels words like the best case or the trivial case in any algorithm , and we added it in the beginning of the algorithm . • We replace the word ontology with morphological derivatives frame • Really the FAD word algorithm presented is not complete , it is in 11 page . but it is more similar to the first part .



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	• However, the main weakness of the paper is the lack of experimental validation allowing to demonstrate the reliability of the proposed approach and to compare it with well known methods of the literature. • A considerable gap is observed in the references. Indeed, most of the cited references are ancient. The most recent reference is 2011. In addition, the paper did not mention previous works using the maximum entropy for text classification, which is necessary. • The paper has a poor linguistic quality, making the paper occasionally hard to follow. The errors are too numerous to be exhaustively pointed out.	• We updated the reference. • All linguistic are revised
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		