



SDI FINAL EVALUATION FORM 1.1

PART 1:

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

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments																																						
1) i have no objection but the method is still in vague . 2) such as ي is for yā , و is for ū, ا is for ā	1) i have no objection but the method is still in vague . It seems that the referee has a problem in understanding the paper. To solve the vague, The novel of this paper is as the following: The aim of the paper to make classification for the huge amount of Arabic documents. We proposed a method to do classification as follows First: extract the words using maximum entropy Second: extract the all derivative for each extracted word, why we do this step? Answer ** Third: apply the classification algorithm using first and second. Answer ** In Arabic language you can find about 58 derivative for one word, if we apply the classification algorithm according the result word from maximum entropy we discard all derived words. also Arabic language more complicated not like English language ex. <table><tr><th>No.</th><th>لَعِبَ means "play"</th></tr><tr><td>1</td><td>يَلْعَبُ</td></tr><tr><td>2</td><td>تَلْعَبُ</td></tr><tr><td>3</td><td>يَلْعَبَا</td></tr><tr><td>4</td><td>تَلْعَبَا</td></tr><tr><td>5</td><td>يَلْعَبُوا</td></tr><tr><td>6</td><td>تَلْعَبْنَ</td></tr><tr><td>7</td><td>يَلْعَبِي</td></tr><tr><td>8</td><td>تَلْعَبِي</td></tr><tr><td>9</td><td>يَلْعَبَا</td></tr><tr><td>10</td><td>تَلْعَبَا</td></tr><tr><td>11</td><td>يَلْعَبُوا</td></tr><tr><td>12</td><td>تَلْعَبْنَ</td></tr><tr><td>13</td><td>يَلْعَبِي</td></tr><tr><td>14</td><td>تَلْعَبِي</td></tr><tr><td>15</td><td>يَلْعَبَا</td></tr><tr><td>16</td><td>تَلْعَبَا</td></tr><tr><td>17</td><td>يَلْعَبُوا</td></tr><tr><td>18</td><td>تَلْعَبْنَ</td></tr></table>	No.	لَعِبَ means "play"	1	يَلْعَبُ	2	تَلْعَبُ	3	يَلْعَبَا	4	تَلْعَبَا	5	يَلْعَبُوا	6	تَلْعَبْنَ	7	يَلْعَبِي	8	تَلْعَبِي	9	يَلْعَبَا	10	تَلْعَبَا	11	يَلْعَبُوا	12	تَلْعَبْنَ	13	يَلْعَبِي	14	تَلْعَبِي	15	يَلْعَبَا	16	تَلْعَبَا	17	يَلْعَبُوا	18	تَلْعَبْنَ
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	19	لَعَبَ
	20	لَعَبَت
	21	لَعَبَا
	22	لَعَبُوا
	23	لَعِبْنَ
	24	إِلْعَاب
	25	إِلْعَابِي
	26	إِلْعَابَا
	27	إِلْعَبُوا
	28	إِلْعِبْنَ
	29	مَلْعُوب
	30	مَلْعُوبُهُ
	31	مَلْعُوبَان
	32	مَلْعُوبَتَان
	33	مَلْعُوبُونَ
	34	مَلْعُوبَات
	35	لَاَعَبَ
	36	لَاَعَبَهُ
	37	لَاَعِبَان
	38	لَاَعِبَتَان
	39	لَاَعِبُونَ
	40	لَاَعِبَات
	41	لُعُوبَ
	42	لُعِبَ
	43	الْعَبَ
	44	لُعِبَاء
	45	لُعِبَ
	46	لُعِيبَ
	47	لُعِبَان
	48	لُعِيبِي
	49	لُعَاب
	50	مِلْعَاب
	51	لُعُوبَاب
	52	لُعِيب
	53	لُعِب
	54	مِلْعَب
	55	مِلْعِيب
	56	مِلْعَب
	57	مِلْعَب
	58	مِلْعَبَة
Algorithm 2 extracts the previous derivatives, this algorithm has no developed anything in Arabic language, but for the classification of Arabic document Example for classification: If we extract a word (لُعِبَ) in class "sports", one document contains the word (لُعِبَان) In normal classification لُعِبَ not equal لُعِبَان so the document is not in sports class, and this		



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	result is wrong We solve this problem using algorithm 2 that creates derivative words. 2)such as ي is for yā , ة is for ū, ا is for ā This comment for algorithm 2, I cannot write programming or algorithm in Arabic language so we select English alphabet replace Arabic . like "let x= set of words " for example <i>If ($V_1 = \text{أ} \wedge V_2 = \text{أ}$) then</i> <i>{</i> <i>PrSM= $y \circ C_1 \circ C_2 \circ C_3$, $y=\text{ي}$</i> <i>}</i> <i>here ي is not a phonetic for ع Just replace by it, and I can put any alphabet other Y like A , B , ... , but I use it for easy to me in programming</i>
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