



SDI Review Form 1.6

Journal Name:	<u>British Journal of Mathematics & Computer Science</u>
Manuscript Number:	2015_BJMCS_17566
Title of the Manuscript:	A novel Comparison between the Performances of Several Invariant Moments for Printed Multi-Oriented, Multi-Scaled and Noisy Eastern Arabic Numerals Recognition
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.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment <i>(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)</i>



SDI Review Form 1.6

Compulsory REVISION comments

Line 36: Change the first word “have” to “are”.

Line 42: I think “by” should be inserted between “fragmented” and “each”.

Line 48: Put “comma” after “concerning the last phase”

Line 54: You may change “whose” to “where”

Line 73: Kindly cross-check the statement in Line 73 and correct as appropriate.

Line 120: Change “moment” to “moments”

Line 123: Kindly confirm your statement “scaling and rotation by replacement M_{pq} by V_{pq} ” and correct as appropriate.

Line 186: Change “an function” to “a function”.

Line 214: Kindly check your statement in Line 214 and correct as appropriate.

Line 216: Kindly change “maximizes” to “maximize”. Also, change “other” to “others”.

Line 218: Kindly re-write Equation (33) properly.

we are interested in this study

each OCR system is in general formed by a set of three principal phases

concerning the last phase,

we will have therefore ten pairs of classes where each of them is separated.

then by the thresholding (binarization) technique, for render it contains only the black and white color according a pre-selected threshold.

Firstly, we recall the definitions of the geometric moments.

In fact, the purpose of V_{pq} (given in equation 12) is to render the Legendre moments also invariant against translation, scaling and rotation

of a function

However the property of SVM is that this classifier must be optimal, in other words it must maximize as possible the distance between support vectors of a class and it must to maximize as possible the distance between support vectors of a class and those of other opposite class

I have re-written it

the support vectors

the support vectors is non-zero

more precisely the performances means

to three characteristics which are

in our study, we used the following data



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	Line 222: Change “supports” to “support”. Line 234: Change “nonzero” to “non-zero”. Line 246: Kindly check the statement “more precisely saying the performances this means to” and correct it appropriately. Line 252: Kindly change “data’s” to “data” or “data set”. In Table 2: Check the data very well. Do you mean to write for example 93.55 instead of 93,55? I think the comma should not be between the data, kindly use ‘dot’. In Figure 5: Kindly label the horizontal axis. Lines 299 to 303: Kindly give reasons for your comments. Line 312: Kindly check your statement in Line 312 and correct as appropriate. Line 317: Put “comma” after “said”. Line 333: Kindly check your statement “instable out this interval” and correct as appropriate. Line 369: Put “comma” after “results”. Line 378: Kindly check your statement very well and correct as appropriate.	
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	Line 399: In Table 4, you wrote “tree moments”, do you mean to write “three moments”? Please, verify and correct appropriately. Line 402: You may need to change “replacement” to ‘replacing’. Lines 442 to 445: Kindly check your statements properly and correct appropriately. Line 459: You did not label your table. You may need to label it as Table 6. Line 543: You may not need to start “while” on a new line.	As we already said, and is instable elsewhere results”. Five moments Obtained by replacing
<u>Minor</u> REVISION comments	There are some grammatical errors identified in the paper. Kindly go through the write-up very well and make corrections where needed.	I have corrected all these errors
<u>Optional/General</u> comments	The paper seems to be a nice one but the authors are strongly advised to give reasons for their statements in ANALYSIS AND COMMENTS. This is very important.	I have corrected all these errors