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Journal Name:	**British Journal of Mathematics & Computer Science**
Manuscript Number:	**2014_BJMCS_14611**
Title of the Manuscript:	**A Neuronal Classification System for Plant Leaves using Genetic Image Segmentation**
Type of the Article	**Original Research Article**

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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	1-why equation 5.1 is used based on what reference? **2-**Image segmentation as defined in 5.3 section is wrong it should be the division of an image into disjoint regions such that the intersection of Ri and Rj is null and the union of all regions is the image itself. 3- There is a need to describe the structure of the chromosome, what are the constraints and what is the objective? how it converges after reaching the max number of generation or there is another condition? The process of GA is not clear and not convincing 4- In section 5.3 What is I and O? what does the authors mean with I and O are evaluated and input image pixels respectively? **This should be clearer** 5-The equation 5.3 cannot be a general representation for a relationship between an image and its segmented part except in defined case such as the work listed in the paragraph. 6- It is not clear what the relationship is between equation 5.3 and 5.2. If 5.2 is used to create the population of GA how this is done Figure 8 does not explain the input of GA and how the chromosome is created	

	7-it is not clear how the GA-CNN converges in the flowchart of Figure 2 and Figure 8. How is best Chromosome selected based on what criteria? How GA converges to the global optimum solution after 101 generation or the solution n=does not change after n cycle? Not clear **8-** What features are extracted? section 5.4 is not clear why 20 features are extracted and what they describe (color, texture, edge...etc) The authors indicate in section 5.4 that 20 features are extracted from Flavia datasets. Should it be the dataset or each image? 9- The results of the experiments does not prove the efficiency of the new method for the following reasons: the new method combine several processes in order and it is known that GA alone is very slow and needs time more than any other process. So I am sure the new process needs more time and there is no significant difference between Sobel and the new method	

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Minor REVISION comments	1- Authors should investigate more references	
Optional/General comments	1- The authors are urged to check other techniques which can help improving their research such as the combination of ANN, Mathematical morphological operators and edge detection techniques or th combination of ANN and GA in order to minimize over-segmentation	

Reviewer Details:

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