



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2014_BJMCS_12981
Title of the Manuscript:	Quality inspection of bag packaging red beans (<i>Phaseolus vulgaris</i>) using fuzzy clustering algorithm
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>)



SDI Review Form 1.6

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)
<u>Compulsory</u> REVISION comments	In general, I think it is interesting paper, which is a useful application of the improved clustering technique to real word.	
<u>Minor</u> REVISION comments	Since FCM like technique is the key tool for the addressed application, I think some new advances about FCM like clustering methods should be introduced and discussed. For example, the following paper about the soft subspace clustering methods are very related: Enhanced soft subspace clustering integrating within-cluster and between-cluster information Z Deng, KS Choi, FL Chung, S Wang - Pattern Recognition, 2010 - Elsevier An entropy weighting k-means algorithm for subspace clustering of high-dimensional sparse data L Jing, MK Ng, JZ Huang - Knowledge and Data Engineering, ..., 2007 - ieeexplore.ieee.org	Thank you for these positives comment. But I want to underline the fact that there are many FCM approach. Some have challenged robustness and noise (S. Krinidis and V. Chatzis, "A robust fuzzy local information c-means clustering algorithm," IEEE Transactions on Image Processing, vol. 19, pp. 1328–1337, 2010) and other fast clustering (Tian Junwei, Huang Yongxuan, Tian Junwei, "Histogram Constraint Based Fast FCM Cluster Image Segmentation," IEEE International Symposium on Industrial Electronics, 2007). All these new approach have not discussed with entropy weighting or Enhanced soft subspace because depending on the problem focus by author's. My real challenge is to propose an innovation. Every image has their own texture and some algorithm can be success in one image and fail in other. It is difficult to standardise discussion in some approach when it is not the main point of innovation. In fact, I have proposed a new approach to quality control. The robustness and fast segmentation of the proposed FCM have been demonstrated in manuscript submitted.
<u>Optional/General</u> comments		