



SDI Review Form 1.6

Journal Name:	<u>British Journal of Applied Science & Technology</u>
Manuscript Number:	Ms_BJAST_24303
Title of the Manuscript:	Comparative Analysis of Back Propagation Neural Network and Self Organizing Feature Map in Estimating Age Groups using Facial Features
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:

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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)
<u>Compulsory</u> REVISION comments	1. The number of weights in BP network is over 2000 while number of training samples is only 450. Such relation may lead to overfitting and loss of network generality. Please comment on this and explain why such large network (in terms of number of neurones) was used. 2. Please explain the difference in classification accuracy obtained for BPNN and SOFM. Is it related with network architecture (size of map, number of neurones, etc.) or it is due to properties of analysed data?	1. Overfitting occurs during NN training. In this work there are 40 inputs, this inputs are the features extracted from the 450 images. 50 neurones in the hidden layer gives optimal result, so that's why the authors used 50 neurons for the hidden layer. 2. The difference in classification accuracy obtained for BPNN and SOFM is related to the map size in SOFM and number of neurones in BPNN. The properties of the analysed data has nothing to do with it because the same preprocessing and feature extraction steps were used.
<u>Minor</u> REVISION comments	Viola-Jones algorithm requires some literature reference	Noted and Corrected
<u>Optional/General</u> comments		