Reviewer's report

Title: Automatic diagnosis of melanoma using machine learning methods on a spectroscopic system

Version: 4 Date: 29 August 2014

Reviewer: helen Chen

Reviewer's report:

The authors have made major revisions to their experiments and discussion. All major and minor essential revision requests have been adequately addressed.

Discretionary Revisions:

The authors proposed two aspects for their future work, one being "going to investigate the possibility of reducing the size and weight of the spectroscopic device using mobile system, new light source, and cloud computing technology." This statement implies a very wide range of technology investigation, from hardware to software infrastructure to algorithm development. It is hardly an actionable plan within the context of this paper. For instance, I have difficulty to see how cloud computing would improve the accuracy of the proposed algorithm.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

I declare that I have no competing interests