Reviewer’s report

Title: Statistical Permutation-based Artery Mapping (SPAM): A Novel Approach to Evaluate Imaging Signals in the Vessel Wall

Version: 0 Date: 04 Jan 2017

Reviewer: yang chen

Reviewer’s report:

This paper proposed a Statistical Permutation-based Artery Mapping (SPAM) to Evaluate Imaging Signals in the Vessel Wall. This paper is well written, and could be considered for publication if the following points can be well addressed:

1, There are quite a lot paramters to be set in the proposed strategy, but lack an extensive analysis on it? So please add then in the next revision;

2, the branch boundaries were denleated manuall, and then interpolation. This requirement of human involvement might lowered the feasibility of the proposed method. Please addressed this/

Some algorithms on curve detection methods can be applied or test to extract of the branch or centelerline or trajectories of vessel srecutures for the proposed methods:


So it is suggested provide an detailed discuss on this and the possible improvment which is might be brought by methods in the reference papers.

3, page 3, line 33, "to compute the vessel boundaries....." should "to retrieve the vessel boundaries.....", pafe 7, line 20, "E and H are addittional parameters..." should be "E and H are the additional parameters..."

4 ,please order the equations

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.
Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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