REVIEWER COMMENTS JOURNAL OF MINING AND EARTH SCIENCE (JMES)

(First Assessment)

Article title: Comparison of the resampling methods for gridded dem downscaling

Please use this guide to assist you in formulating your comments on the review form below:

(Please, <u>double-click on one square</u> for your selection)

1. Initial points to be considered:

- Does the subject fall within the scope of the journal? \square Yes \square No
- Is this a novel and original contribution? \square Yes \square No
- Are interpretations and conclusions sound, justified by the data and consistent with the objectives? ⊠Yes □No
- Is the material too clinical, too specializes or too preliminary for our readership?

□Yes □No

If your answers (s) to any of the above points suggest that the paper is not suitable for the journal, please give clear argument for rejection on the review form:

2. If the paper is appropriate for review, then please consider the following:

 Does the title clearly reflect the contents? ⊠Yes □No Comment:.....
 Is the abstract sufficiently informative, suitable to appear on the journal? ⊠Yes □No Comment:

In the abstract, the authors have presented quite sufficient information about the article. However, the authors should add more information as the conclusions so that the readers can understand what the article has proven.

• Are keywords appropriate? \square Yes \square No

<u>Comment</u>: You shold add more the keyword "DEM downscaling"

.....

Is the statement of the article adequate and appropriate in view of the subject matter?

⊠Yes □No <u>Comment</u>:.....

 Is the description of materials and methods sufficiently informative to allow replication of the experiment? □Yes ⊠ No <u>Comment</u>:

Materials and methods are presented too briefly. The authors have not presented in detail the methods used to interpolate DEM as well as methods of assessing accuracy for interpolation DEMs.

- Are the statistical methods used correct and adequate? ⊠Yes □No
 <u>Comment:</u> The authors used a quantitative evaluation method based on the currently used common parameters which are the root mean square error (RMSEs), the linear regression parameters: m, b and the correlation coefficient R are quite reasonable.
- Are the results clearly presented? ⊠Yes □No
 <u>Comment</u>: The results were analyzed quite well, the authors analyzed the case to degraded
 DEM and DEM downscaling resolution by tables, profile charts, and images .
- Is the organization of the article satisfactory? ⊠Yes □No
 <u>Comment</u>: The organization of the article is quite good, however, it is necessary to break the sentence to insert the figures which is more reasonable for following easier (wrote a comment directly in the article)
- Does the content justify the length? ⊠Yes □No
 <u>Comment</u>:
- Are the figures, photos and table all necessary, complete and clearly presented? ⊠Yes □No

Comment:

In Table 2, Table 3, Table 4, and Table 5, the author needs to re-explain RMSEs for those methods at each point at CP and RP profiles. According to readers, it is the difference between referent DEM and resampled DEM at each point of profile. Is that *true*?..... Are the references adequate? ⊠Yes □No Comment: Check out some links for references, some errors have occurred Is the English correct and understandable to a multidisciplinary and multinational readership? \Box Yes □No <u>Comment</u>: *Please enable the spell check function, there were some literal error in typing*

3. Recommendation to the Editor:

- \Box Acceptance with no revision
- \square Acceptance with minor revision
- □ Acceptance with major revision
- □ Rejection

Signature of Reviewer

Tran Van Anh Name of Reviewer (Please type or print) ____05/21/2019_____ Date (Month/Day/Year)

Title (*Please type or print*)

Addition comment/guide to the author for:

Abstract:

In the abstract, the author should show which method get the best result, how much accuracy (RMSEs) of each method...

<u>1.</u> Introduction:

.....

2. Methods:

Method: The author should present each method that were tested in the experimental section to make DEM resolution downscaling.

Materials: - For DEM images of different study areas, the geographical coordinates should be added.

- In order to perform different algorithms such as bilinear, bi-cubic and Kriging resampling, the author also needs to show which software and programming language was used to do these functions.

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3. Results:

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<u>4.</u> Discussion:

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5. References:

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