

Interactive comment on “Remote sensing data processing by multivariate regression analysis method for iron mineral resource potential mapping: A case study in Sarvian area, central Iran” by Edris Mansouri et al.

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I found this paper topical, relevant and interesting, as authors focus on the potential of Earth Observation (Remote Sensing) technique combined with Multivariate Regression Analyses. However, authors need to address a number of technical issues in this paper. I divided my observations to general observation and specific comments:

General observation: Introduction: I suggest a brief section that gives information on the relevance of remote sensing techniques in resource management with good references. To my understanding, the contribution of this paper to knowledge is on method-

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ology. For me, the extensive discussion on Multivariate Regression Analyses gives a different impression to the paper though. This can be summarised.

Conclusion. The conclusion section basically focus on multivariate regression analysis (MRA). However, MRA should be a means to an end and not an end itself, please briefly discuss the results of your work in relation to the potential of MRA and remote sensing for iron mineral resource potential mapping as demonstrated for your study area.

References: I also observe that the referencing is not in conformity with the journal style. Please check this out.

Specific comment :

Line 79- 80. “ Linear regression is used for modeling mineral prospetivity in the Sarvian area” . The statement is not appropriate here. It can go to literature review section..

Line 54-175: I suggest that you change this section to methodology [Study Area and Data collection and analysis] Line 155-173: What do you mean by regression analyses in the study area? I thought we should be looking at result and discussion section. You may wish to change this section to RESULT AND DISCUSSION.

Good luck !!!!

Please also note the supplement to this comment:

<http://www.solid-earth-discuss.net/se-2017-25/se-2017-25-SC1-supplement.pdf>

Interactive comment on Solid Earth Discuss., doi:10.5194/se-2017-25, 2017.

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