

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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Title: Remote sensing data processing by multivariate regression analysis method for iron mineral resource potential mapping: A case study in Sarvian area, central Iran
Author(s): Edris Mansouri et al. Comments from Colin Pain

General comments This is an interesting paper that uses remotely sensed data supported by ground truth to prepare a map of iron mineral prospectivity.

Specific comments See the accompanying file. You have a lot of relevant references. However, I suggest a few more – these are from a simple search I carried out, and you

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might like to include more. If you have trouble accessing them, please let me know. Xiaohui Li, Feng Yuan, Mingming Zhang, Cai Jia, Simon M. Jowitt, Alison Ord, Tongke Zheng, Xunyu Hu, Yang Li, Three-dimensional mineral prospectivity modeling for targeting of concealed mineralization within the Zhonggu iron orefield, Ningwu Basin, China, *Ore Geology Reviews*, Volume 71, December 2015, Pages 633-654. Renguang Zuo, Zhenjie Zhang, Daojun Zhang, Emmanuel John M. Carranza, Haicheng Wang, Evaluation of uncertainty in mineral prospectivity mapping due to missing evidence: A case study with skarn-type Fe deposits in Southwestern Fujian Province, China, *Ore Geology Reviews*, Volume 71, December 2015, Pages 502-515. Yihui Xiong, Renguang Zuo, Effects of misclassification costs on mapping mineral prospectivity, *Ore Geology Reviews*, Volume 82, April 2017, Pages 1-9.

Technical corrections The main problem with this paper is the very poor English expression. In the attached document I have made some suggested edits, and have highlighted, in yellow, sentences and phrases that I cannot understand. You must have the MS reviewed by an English language specialist. Also, the paper needs some slight reorganisation – see comments in the attached file, and also those from SC1.

Please also note the supplement to this comment:

<http://www.solid-earth-discuss.net/se-2017-25/se-2017-25-RC1-supplement.pdf>

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

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