Interactive comment on "Application of unsupervised pattern recognition approaches for exploration of rare earth elements in Se-Chahun iron ore, central Iran" *by* Mohammadali Sarparandeh and Ardeshir Hezarkhani

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This is Dear authors I wish to congratulate you for writing this really helpful paper. I am interested in the application of numerical modeling methods in geosciences. I enjoy the novelty of this paper that applies clustering approaches for the study of rare earth elements (REEs). Due to the diversity of variables in the studies of REEs, pattern recognition techniques are very useful to unravel subtleties in their distribution. I highly

recommend this paper and in fact, this paper could stand as a seminal reference in the geochemical studies of REEs in Iran. There are few papers dealing with the geochemical studies of REEs in Iran. However, there is a considerable economic potential of REEs in Central Iran and therefore future studies should be focused in this field of study. Best regards, Mohammad Parsa,

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