

# **The methods of permian limestone enhancement by using of remote sensing**

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Real aim of this study is recognition of permian limestones. Permian limestones are very important because of the existence of Bauxite lenses. For this purpose, We chose Saez area in the west of Iran in 46-46,30 Latitude and 36-36,30 Longitude.

In this area you can find three kinds of limestones in different ages. for this investigation we have used Land Sat TM data. In order to recognize them from eachother, Several Remote Sensing methodes have been used

- 1- using of bands 5, 3, 1 in RGB channels
- 2- Ratio method 5/3/1, 6/4/2 and 1/2/3 in RGB channels
- 3- Difference method 5-6, 4-2 and 3-1 in RGB
- 4- Signature method : we have used special method on the base of spectral reflection. By using this method we have found the brightness degrees of different kinds of limestone