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Checking various vegetation indices for estimating vegetation in arid regions and Presented a model (Case Study:Sadough- Yazd)

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Abstract

Vegetation is one of the natural recourses components and achieve Quantitative information of them have a major role in the management of land. Using satellite images is one of the new techniques in the field of qualitative and quantitative studies of the vegetation .Studies show that the use of spectral vegetation indices and ratios may serve as a useful approach in this area, especially in the desert zoon. In this study, using Landsat TM imagery sensors, to calculate different vegetation indices and their ability checking vegetation in arid regions. After multivariate regression analysis between the actual values and parameters, and validation of models optimal model was selected. The results showed that the index of ARVI with the corresponding coefficients is better results in estimating the amount of vegetation in arid regions.

Keywords: vegetation, satellite images, vegetation index, arid region, Saduq