REMOTE SENSING AND GIS TOOLS FOR PLANNING AND MANAGEMENT

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ABSTRACT

Desert managers are usually constrained in decision making by the lack of reliable and timely information. Even if, desert information is available, the managers also face difficulties in processing the high amount of information. The advent of remote sensing and GIS technologies may create an opportunity for the development of new approaches to computer processing of geographically referenced data. This paper reviews some applications of remote sensing and GIS for the purpose of hydrology, soil, range land and erosion management in the five areas in the Yazd, Qom, Kerman and Farse provinces. This paper also discusses the capability of remote sensed data in soil salinity and land use change detection and environmental crisis. Based on the obtained results from this research we suggested the future direction in management, desertification programs and agricultural activities using remote sensed data and GIS towards a sustainable development in Iranian Deserts.

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