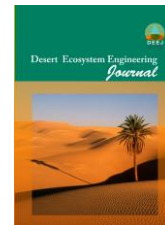




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## Choosing the best place for the purpose of the earth-fill Dam for the sustainable development of water resources by using the ELECTRE (Case study: basin of watersheds is one Shahroud-bastam Basin)

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### Abstract

The optimal management of water resources needs to learn exact and up to date, of how the conditions governing the resources and the status of their future forecasts. one of the methods of management of water resources use methods of the multi criteria decision making. The purpose of this research to choose the best place for the purpose of the earth-fill dam found to develop sustainable water resources. findings and the results of the research indicates that in the above seven large ELECTRE zekr, large (3, 4, 5) with 4 times the domination and 2 times the defeated with (2) points in the first rank, and have been the most appropriate levels for the earth-fill dam, in front of a large (1) with 6 times recessive and without fluency with (6) points in the final ranking and the direction of the earth-fill dam is not appropriate and a large (2, 6, 7) respectively with (2, 2, 1) time mastery and (4, 4, 5) was defeated with rates (1-, 2-, 4-) in the next category. levels of (1, 2, 6, 7) due to the fact that the number of times the one in which the number of non-dominant one in which more and negative points are earned should be deleted.

**Keywords:** watershed, shahroud, methods ELECTRE, techniques GIS, zoning.

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