عنوان مقاله:

Zonning susceptible areas of landslide using WLC and OWA methods -A case study in Mountain cliff Khan, Iran

محل انتشار:

مجله بررسی زمین پایدار, دوره 1, شماره 2 (سال: 1399)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

Landslide is among the most damaging ones, which has been accelerating in recent decades as human manipulation of natural systems has occurred. Mountain cliff Khan is located on the path of Saghez-Baneh and is considered as a highway to the west of the country and given the fact that it is located in mountainous areas and the probability of occurrence mass movements in the region are high, for this reason in this research, we have attempted to identify areas susceptible to mass movements in the studied area. Therefore, the method of descriptive-analytical work is considered as a type of component of applied research. The methodology is that after the preparation and insertion of information, the information layers are standardized by fuzzy logic method. And then through the AHP model, the information layers are weighed and then combined with the two methods of OWA and WLC. As a result, areas susceptible to mass motion are identified using these two methods. The results of the evaluations indicate that the areas around mountain Khan Tunnel due to the high slope, high altitude, proximity to the drainage network, adjacent proximity to the fault lines, there is a high potential for mass movement. The results of the comparison of the two methods indicate that in general, the areas around the mountain Khan tunnel because of slope and height and human .interference have the highest potential and the risk is reduced to the surrounding area

کلمات کلیدی:

Mass Movements WLC OWA Cliff Khan