

Finding out the Best Criteria for Locating the Best Place Resettling of Victims after the Earthquake: A Case Study for Tehran, Iran

Authors : Reyhaneh Saeedi

Abstract : Iran is a capable zone for the earthquake that follows the loss of lives and financial damages. To have sheltering for earthquake victims is one of the basic requirements although it is hard to select suitable places for temporary resettling after an earthquake happens. Before these kinds of disasters happen, the best places for resettling the victims must be designated. This matter is an important issue in disaster management and planning. Geospatial Information System(GIS) has a determining role in disaster management, it can determine the best places for temporary resettling after such a disaster. In this paper, the best criteria have been determined associated with their weights and buffers by use of research and questionnaire for locating the best places. In this paper, AHP method is used as decision model and to locate the best places for temporary resettling is done based on the selected criteria. Also, in this research are made the buffer layers of criteria and change them to the raster layers. Later on, the raster layers are multiplied on desired weights then, the results are added together. Finally, there are suitable places for resettling of victims by desired criteria by different colors with their optimum rate in ArcGIS software.

Keywords : disaster management, temporary resettlement, earthquake, criteria

Conference Title : ICEEST 2015 : International Conference on Ecological, Environmental Science and Technology

Conference Location : Istanbul, Türkiye

Conference Dates : March 23-24, 2015