

ABSTRACT

Natural disasters are considered as the most common disaster on the planet which contributes to the large number of deaths associated with it. The deaths are based on only on the disaster and damage created by the disaster but due to the shortage of food and daily requirement in the particular area. The evacuation and health safety of the victims of the disaster are required in order to maximize the human life saved after and during the disaster. This work using fuzzy rule-based system for the prediction of amount of aid requirement and evacuation requirement based on the earthquake intensity, human being present in the area of disaster and the damage created due to the disaster. The result shows that the human being present in the area largely contribute to the amount of aid as well as evacuation required for the human beings. Larger the earthquake intensity, more will be damage created due to the earthquake require more evacuation. However, aid is mandatory and more important due to the fact that the evacuation requires time and management in order to evacuate people from the area.

Keywords: Natural disaster, evacuation, fuzzy rule-based system