

عنوان مقاله:

An appropriate approach to routing disaster relief assessment teams

محل انتشار:

دومین کنگره بین المللی سازه ، معماری و توسعه شهری (سال: 1393)

تعداد صفحات اصل مقاله: 11

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خلاصه مقاله:

After having struck a major natural disaster like earthquake, different organizations run about to decrease losses. These organizations may have their own strategy, but true demand information as their operational feed is the problem that they absolutely have something in common with. Evaluation of demand is one of the most important parts of disaster response operations. Relief assessment teams are a group of vehicles that are dispatched to affected area in order to assessing relief demand. As time is very sensitive factor in disaster management, routing and scheduling these teams is indispensable. The aim of this paper is to formulate this issue more accurate based on two principal problem which is vehicle routing and parallel machine scheduling so that true demand would be available for save and rescue as soon as possible. The performance of approach is tested on a number of randomly generated networks and results show 13 percent improvement in total completion time of operation in comparison of previous approaches.

کلمات کلیدی:

Disaster management, relief assessment routing, scheduling and optimization

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