

عنوان مقاله:

A New Multi Objective Mathematical Model for Relief Distribution Location at Natural Disaster Response Phase

محل انتشار:

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نویسندگان:

Mohammad Ebrahim Sadeghi - Department of Industrial Management, Faculty of Management, University of Tehran, Tehran, Iran

Morteza Khodabakhsh - Department of Industrial Engineering, Islamic Azad University, Central Tehran Branch

Mahmood Reza Ganjipoor - Department of Industrial Engineering, Islamic Azad University, Central Tehran Branch

Hamed Kazemipoor - Department of Industrial Engineering, Islamic Azad University, Central Tehran Branch

Hamed Nozari - Department of Industrial Engineering, Islamic Azad University, Central Tehran Branch

خلاصه مقاله:

Every year, natural disasters such as earthquake, flood, hurricane and etc. impose immense financial and humane losses on governments owing to their unpredictable character and arise of emergency situations and consequently the reduction of the abilities due to serious damages to infrastructures, increases demand for logistic services and supplies. First, in this study the necessity of paying attention to locating procedures in emergency situations is pointed out and an outline for the studied case of disaster relief supply chain was discussed and the problem was validated at small scale. On the other hand, to solve this kind of problems involving three objective functions and complicated time calculation, meta-heuristic methods which yield almost optimum solutions in less time are applied. The EC method and NSGA II algorithm are among the evolutionary multi-objective optimization algorithms applied in this case. In this .study the aforementioned algorithm is used for solving problems at large scale

کلمات کلیدی:

Locating-Distribution, Relief supplies, Response, Mathematical model, Multi-objective

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