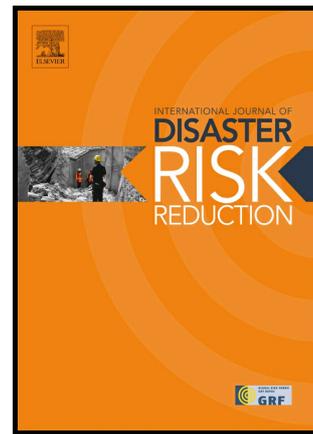


Author's Accepted Manuscript

A cause and effect relationship model for location of temporary shelters in disaster operations management

Erkan Celik



www.elsevier.com/locate/ijdr

PII: S2212-4209(16)30707-5
DOI: <http://dx.doi.org/10.1016/j.ijdr.2017.02.020>
Reference: IJDRR516

To appear in: *International Journal of Disaster Risk Reduction*

Received date: 15 November 2016
Revised date: 21 February 2017
Accepted date: 22 February 2017

Cite this article as: Erkan Celik, A cause and effect relationship model for location of temporary shelters in disaster operations management, *International Journal of Disaster Risk Reduction*, <http://dx.doi.org/10.1016/j.ijdr.2017.02.020>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain

A cause and effect relationship model for location of temporary shelters in disaster operations management

Erkan Celik*

Department of Industrial Engineering, Munzur University, 62000 Tunceli, Turkey

*Corresponding author. Tel.: +90 428 213 1794; Fax: +90 428 213 1861. erkancelik@munzur.edu.tr

Abstract

The aim of the location of temporary shelter directly is to focus on helping the sufferers and injured people on disaster areas during and after a disaster. Facility location (location of temporary shelters) decisions play a critical role and affect directly performance of relief operations in disaster operations management (DOM). In this paper, a proactive decision-making tool by integrating decision-making trail and evaluation laboratory (DEMATEL) method with interval type-2 fuzzy sets (IT2FSs) is proposed to locate of temporary location in DOM. While DEMATEL method enables to analyse cause and effect relationship in decision-making process, the IT2FSs overcome ambiguity and vagueness of linguistic assessment of decision-makers through the DEMATEL. 14 different criteria for location of temporary shelters are considered by 9 disaster operation managers for evaluating the cause and effect factors. Beside the theoretical contribution of the proposed method, it provides practical benefits to disaster operation managers to perceive cause and effect relationship on location of temporary shelters.

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات