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Correction to: Determination of emergency roads to emergency accommodation using loss analysis results

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Correction to: Geoenvironmental Disasters (2021) 8:15 https://doi.org/10.1186/s40677-021-00190-2

Following publication of the original article (Ganjehi and Khatiri 2021), the authors identified an error in the Abstract. In addition there was a technical error which caused language errors throughout the article and the digits above the scale bar in Figures 1, 9, 10, 11, 12, 15, 17 did not show appropriately.

The language errors are corrected, the word that was added due to the technical error: 'TEMP' was removed in all occasions and the digits above the scale bar in the Figures are corrected in the original article (Ganjehi and Khatiri 2021).

The correct Abstract is given hereafter.

Abstract

This study presents a method to identify safe places to build temporary accommodation and accessible relief routes using the results of damage analysis for an earthquake within the bounds of probability for the city of Shiraz in Iran. The commonly used HAZUS damage estimation method was used. The most influential factors on the location of safe temporary accommodation in Shiraz were determined by use of the damage results, the Analytic Hierarchy Process (AHP) model, and Expert Choice

software. A map for the resulting optimal locations of temporary accommodation was prepared. Subsequently, all of the parameters influencing the safety of emergency evacuation efforts and the relief network were identified and the impact rate of each one was determined based on expert opinions through AHP. Based on the resultant importance of each index, roads were weighted and coded. The optimally safe routes for relief and emergency evacuation were determined. The results suggested that different indices suggest different relief routes and the optimal route was obtained through overlapping the data layers according to the importance of each parameter. This optimal route could provide maximum services in the minimum time and subsequently create capacity building in urban crisis management.

Keywords: Earthquake, Emergency accommodation, Damage, Emergency evacuation, AHP

All the changes that were requested are specified in this correction and the original article (Ganjehi and Khatiri 2021) has been corrected.

The original article can be found online at https://doi.org/10.1186/s40677-021-00190-2.

Full list of author information is available at the end of the article



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