

Interactive comment on “GIS modelling of seismic vulnerability of residential fabrics considering geotechnical, structural, social and physical distance indicators in Tehran city using multi-criteria decision-making (MCDM) techniques” by F. Rezaie and M. Panahi

F. Rezaie and M. Panahi

rezaiee.1984@gmail.com

Received and published: 17 November 2014

Dear reviewer #1

The authors would like to thank you for very valuable comments and suggestions, which will undoubtedly improve our submitted manuscript and will be taken into consideration in our revised manuscript. In the following parts you may find our reply to your com-

C2478

ments:

1. In this study because of all layers were feature polygon, we did not use the method of overlaying raster layers and processing is done in vector system for each census units and so the pixels size is not defined.
2. All maps have been developed based on the information of the Statistical Center of Iran, JICA and some studies have been conducted by the Iranian experts that this subject will be noted in the new version of the manuscript.
3. Since in this paper, we considered many criteria (indicators) and alternatives (sub-indicators) to develop a seismic vulnerability map for Tehran residential fabrics, so to avoid prolonging the content of this article, just a brief description of each of the factors was given and for further information other references has been referred. Also, instead of a detailed description of the entire process, the process of seismic vulnerability assessment was shown in Fig.1, and as shown in Table1 and 2, the weight of each factor is determined by reviewing the literature and the Iranian expert's opinions.
4. The main results are explained and illustrated with maps and statistical charts and we thought it was the best way but we will be so grateful if reviewer has new suggestions.

Please also note the supplement to this comment:

<http://www.nat-hazards-earth-syst-sci-discuss.net/2/C2478/2014/nhessd-2-C2478-2014-supplement.pdf>

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 2, 5903, 2014.

C2479