Research on InFormation Science & Public Libraries Abstracts

Measuring Vulnerability of Tabriz City Public libraries Buildings against Danger of Earthquake Based on Yager Method

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Abstract

Purpose: The aim of the research is identifying important factors of earthquake vulnerability in buildings of Tabriz public libraries in relatively historic texture of the city and ranking them based on identified and analyzed factors.

Methodology: This work is an applied and descriptive research. Data and information of the research have gathered through scientific documents, checklist, field survey, city maps, satellite images and GPS. The analytic hierarchy process and Yager methods used for data analysis.

Findings: The findings of the research showed that *building materials*, *oldness of Building*, *Building Façade materials*, *its form*, and *position in block*, and also *number of neighbors* and *parcel size* are the most important factors in vulnerability of public libraries buildings. Ranking of the selected public libraries showed that Shahid-Madani Public Library Building has the most vulnerability while Jafariyeh Public Library Building Is the safest against the danger of earthquake.

Originality/Value: We tried to show the importance of factors mentioned above and categorization of vulnerable public libraries that need renewal or restoration.

Keywords: Vulnerability, Tabriz public libraries, Earthquake, Library Building, Yager Method.