

## عنوان مقاله:

(Evaluation of physical resilience against flood risk (Case study: Ahvaz city

## محل انتشار:

ششمین کنفرانس بین المللی پژوهش های کاربردی در علوم و مهندسی (سال: 1401)

تعداد صفحات اصل مقاله: 14

## نویسندگان:

Faramand Hashemizadeh - *PhD in Geography and Urban Planning, University of Tehran Kish International*

.Arezoo Salamatnia - *Ph.D. in Spatial Environment, Islamic Azad University, Tehran North, Iran*

## خلاصه مقاله:

Natural disasters are a set of harmful events that have a natural origin, which is sometimes exacerbated by human factors. In this regard, strengthening the physical components and subsequently increasing resilience can play an important and effective role in reducing flood damage.. Vulnerability resilience emphasizes the positive aspects, and governments today seek to improve life in high-risk areas by promoting resilience to natural disasters .Today, cities in the world have a large population, in the city of Ahvaz live more than a quarter of the population of Khuzestan province. The geographical location of Ahvaz city has caused this city to face flood crisis in different years. Accordingly, the main purpose of this research is a study of the physical structure of the resilience of Ahvaz city against urban floods. Knowledge of experts in decision making, possibility of performing analyzes provide a place by interfering with human knowledge. In the present study using an integrated model FAHP-Dmatel was performed to analyze the interrelationships between criteria and weighting of factors according to their coefficient of effectiveness. In fact, this new model, by combining different methods, has provided an effective solution to assist the assessors group decision-making, and through this, the final weight of the effective criteria in flood risk zoning has been determined. Findings have shown that despite the fact that the physical resilience of Ahvaz was measured with AHP and fuzzy dimethyl models, but due to the sensitivity and importance of this, two fuzzy AND models and WLC method, which have a strict approach, were used. . Finally, in terms of resilience, according to the methods used, fuzzy operators OR, GAMMA, AND and wlc are about ۹۱% of the city of Ahvaz in the vulnerable zone. As a result, the city of Ahvaz is not physically resilient and is also vulnerable to floods in terms of man-made environment and natural environment.

## کلمات کلیدی:

Urban Resilience, Flood, AHP, Ahvaz

## لینک ثابت مقاله در پایگاه سیویلیکا:

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