

Abstract

One of the most important of cities and urban issues in Iran is analysis of physical-physical urban development and urbanization. The overall objective of urban planning is to provide general welfare of the people by creating a better, healthier, more effective and pleasant environment. Therefore, land suitability analysis to identify land development and select prior lands for physical development is very essential. The aim of this study is to assess the physical- physical development of the city of Nikshahr with an emphasis on urban spread, to recognize the factors affecting urban physical-physical growth, to identify the strengths and weaknesses of the urban physical development, and offering effective solutions for fundamental and practical planning of the city and its further physical development. The current research methodology is descriptive- analytical and based on library studies, documents, and field survey. Arc GIS and Auto Cad software were used to analyze data and Fuzzy logic was used in GIS environment to complement this study. It seems that the most prominent natural phenomena of the city are mountains, rivers, and their branches, which have given a linear form to it expanding along the South West to the North East. On the other, the heights in the north and some parts of the south of the city as well as some areas of the Western frame of the city have made its development in the North-South direction almost impossible. This unique sprawl of the city can cause numerous problems, so any attempt for its vertical and smart growth can lead to sustainable development.

Keywords: sprawl, Fuzzy, GIS, Nikshahr



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