Islamic Azad University-Ahar Branch
Geographic Space
An Approved Scientific, Research-based Quarterly

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Site Selectio of Cities Parkings with Using Geographical Information System & AHP Technique (Case Study: Central Part of Abadeh)

Date received: 14 March 2012 Date accepted: 28 June 2010

Abstract

Traffic has always been a considerable metropolitan setback whereas many factors such as the urban fabric, concentration of attractive population applications, weather, and ext. intensifies this problem. In order to overcome such a problem many solutions have been approached where building parking locations at places facing high traffic load is one to remark. The city of Abadeh at the north of Fars State is facing high traffic loads due to its linear expansion, centralization of attractive population applications and also narrow street networks, leading to many one-way streets. This research is from type descriptive - analytical and quantitative that required information was collected from multiple sources such as library, documents and field finding .Therefore in this study, first the appropriate criterions to building

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parking sites has been extracted such as accessibility to high density service levels, the quality of materials, type of building, and also the consideration of compatibility, comfort, efficiency, desirability, health, and safety standards with other nearby applications and after giving weight to layers with using AHP model, by the means of the geographic information system as a powerful device for analyzing and locating, the more appropriate zones of central land portions to create parking locations has been studied and at last the landscape has been divided to five spectrums named very proper, proper, medium, improper, very improper. The results from the rated fields study have shown that an extensive very proper zone holding such characteristics as the destructiveness of the building, having brick and wood material and accessibility to dens service levels is available for building parking locations throughout the city site and can be as a choser as a best place to make parking into centeral part of abade city in order to reduce of traffic in city center.

Keywords: Traffic, parking, Geographical Information System, Analytical Hierarchy Process, Abadeh.

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