Schools Distribution Planning using GIS in Jeddah City

Abstract

Geographical Information Systems (GIS) are used today to provide advanced analysis tools and complete data packages for analyzing services distribution and demographic information. These tools can help planners in taking important decision such as choosing schools locations, and identifying best schools new locations. The aim of this paper is to use GIS functions (overlay analysis, and buffer) in evaluating spatial distribution of schools. The study area in this study is a residential area of Jeddah city, Saudi Arabia. A geo-database is designed that includes land use of Jeddah, and schools located in Jeddah city. Several GIS functions are used in this paper using ArcGIS 10.2. The results are utilized in evaluating spatial distribution of schools, which can help planner in managing the distribution of the future schools at Jeddah city.

References


Index Terms

Computer Science Information Sciences

Keywords

GIS, schools, Jeddah city