Evaluation of School Buildings in Basrah using Geographic Information Systems and Artificial Neural Networks

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Abstract

Education services are a basic requirement in any community for they have the responsibility to develop and promote communities. They are one cornerstone of life and a strong pillar of civilization. The current study aims to evaluate the locations of public school buildings in Basra City (at the south Iraq) using the integration of Geographic Information Systems (GIS) and Artificial Neural Networks (ANN), thus adopting a set of planning standards. Thus classified school buildings into classes ranged from (3-5) depending on the degree of conformity of every study stage where the percentages differed (0.69% rejected, 52.09% unsuitable, 36.36% acceptable, and 9.99% suitable and 1.74 good. This could be attributed to the random selection and bad planning of these locations which, in turn, shows that there is a failure in the plans of developing education services in the city. That is why the study recommends adopting modern technologies to contribute effectively to raising the efficiency of urban planning processes and improve the performance of the planning process in and decision-making to provide the best community services for residents of Basra, including education.
References


Index Terms

Computer Science Information Sciences
Keywords

ANN, GIS, Model, Geo_DB, location, data set.