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Wadi El Natroun Town:

A Geostatistical analysis of Urban and sociodemographic Characteristics

Abstract

This paper aims at exploring the recent urban properties of Wadi El Natroun town (an Egyptian town, located at 30° 21' N. and 30° 22' E. in the western desert), whose urbanization has obviously developed during the last decades, partially as a result of in-migration (with the migrants' variable characteristics).

Furthermore, it aims at investigating the hypotheses that some selected sociodemographic characteristics exert influences on these selected urban properties. This study uses GIS for the spatial analysis of urban and sociodemographic properties (obtained by fieldwork), using Arc GIS 10 software, and applying SPSS statistical analysis for sampling urban and population variables, then analyzing principal components.

The results showed that the differences between surveyed groups of population variables have merely characterize the urban properties in the town.