

3rd International Conference on
Big Data Analysis & Data Mining
September 26-27, 2016 London, UK

Research on the spatial differentiation of urban population along middle and lower reached of the YangZi River region based on GWT

Agen Qiu and Wangjun He

Chinese Academy of Surveying and Mapping, China

According to the insufficient analysis that spatial distribution of population of the impact regional development planning, transportation, resource allocation issues and other issues, this paper used GWR (Geographically Weighted Regression) and OLR (Ordinarily Linearity Regression) method to build population spatial distribution model respectively based on lots of factors. We determined the factors that influence the population's spatial distribution by analyzing the spatial characteristics and comparing models. Then, we analyzed the population spatial distribution of the county-level cities in Zhejiang province by model. The results show that the spatial distribution of the population is not balanced in the middle and lower reaches of the Yangtze River, as the north has a larger population than the south, and furthermore, the east has a larger population than the west. We found that superior social and economic conditions can promote the aggregation of population, the forestland area is negatively associated with the population, and the elevation on the influence of the spatial distribution of the population is not stable. The model based on the prefecture level is available in units of county-level cities based on the experiment of Zhejiang province.

Biography

Agen Qiu is currently working at chinese Academy of Surveying and Mapping in China.

qiuag@casm.ac.cn

Notes: