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## Settlement system of the Kazan county in the middle of the XIX century

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## Abstract

The urgency of the problem under investigation is caused by the fact that the system of the settlement is the basis and the indicator showing the change in the spatial characteristics, as well as a measure and the reflector of the nature of social and economic processes in a particular area, in this case - Kazan County. The purpose of the article is to familiarize with the first attempts to implement spatial and statistical analysis of data on rural settlement in the middle of the XIX century using the methods of modern computer technology. Leading techniques to the study of this problem are the methods of spatial and spatial-statistical analysis of the data. To visualize the settlement structure of the Kazan district an electronic cartographic base was used, established on the basis of the map of 1910. The localization of the settlements accounted by the Ministry of Internal Affairs in 1859, and a spatial analysis of the current settlement system revealed the areas of the greatest concentration of the settlements, relatively uniform distribution of settlements on the existing three county units of the County and uneven distribution of different their types, socio-ethnic and religious heterogeneity of the population, the direction of the main vector of economic and economic development, the beginnings of the industrial production in the county. Study materials are the most timeconsuming and defining step in the creation of the historical geographic information system (GIS).The author(s).

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## **Keywords**

Historical GIS, Kazan county, Localization of villages, Settlement, Settlement structure, Settlement system