

ANALYSIS OF THE STATE AND TRENDS OF SPATIAL DATA VISUALIZATION

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The growth of information technology has led to a significant expansion of the possibilities for storing, processing and presenting spatial data. This gave a new round of development to such a direction of cartography and geoinformatics as geovisualization. Interactivity and dynamics have become the main distinguishing features of modern maps, as especially in the field of cartographic design, which now extend to the problems of human-computer interaction to ensure more successful analysis of geodata and the development of spatial solutions. The article examines the existing definitions of geovisualization and proposes its own version. The scheme and features of individual stages of geovisualization creation are considered. Typical tasks that need to be solved to create high-quality visualization of spatial data are formulated and their systematization is performed. On the basis of the mentioned above tasks and their specificity, the most promising areas of research in the field of geovisualization were identified.

Keywords: geovisualization, geoanalytics, perception, big data, artificial intelligence, geovisualization definition, geovisualization stages diagram, scientific directions

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