THEORETICAL AND METHODOLOGICAL REPRESENTATION OF THE DIRECT TRANSITION FROM GEOINFORMATION TO GEOSCIENCE

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The article discusses new approaches to the creation and use of geoscience and the associated geo-cognitive space. It uses the formal-logical tools for the set-theoretic representation of the studied process of transition from geoinformation to geoscience. It introduces and defines new concepts for a generalized set-theoretic representation of the process of converting geoinformation about the territory and objects located on it into geoscience, focused on solving specific spatial problems using the geoinformation model of the area or the map. The article presents an enlarged technological scheme for creating a geo-cognitive map. It also presents one of the possible solutions to the problem of forming geospatial knowledge and creating a geocognitive map on this basis by a direct transition from geoinformation to knowledge.

Keywords: geoinformation, geoscience, geo-cognitive technologies, cognitive maps, geospatial problem, geocognitive map, geoinformation model, map object

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