

The Use of Artificial Intelligence to Identify Ore-Prospective Territories in East Kazakhstan

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Abstract : This article discusses the possibility of using machine learning algorithms to analyze and synthesize historical geological data with mathematical geophysics and geochemistry data, as well as Earth remote sensing (ERS) results. Creating geoinformation systems for such Big Data with their subsequent processing using artificial intelligence methods provides unique opportunities for more accurate minerogenic zoning of territories, which significantly increases the efficiency of geological exploration. This will improve the accuracy of geological exploration and forecast zones with potential mineral resources.

Keywords : methods of remote sensing of the earth, geographic information systems, artificial intelligence, geological geophysical geochemical and minerogenic data, minerogenic model

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