



Possibilities for the application of computer neural networks in the statistical analysis of petrophysical data

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Abstract

Some difficulties are often occurring when classical analytical methods are applied for processing and statistical analysis of petrophysical data. They are caused by the close (overlapping) values for the physical parameters of various samples. The development of artificial intelligence in the field of information technologies provides a solution to such problems. Computer neural networks can be successfully used as they are universal approximators and applied as analysis tools they can give the best fit to the distribution of any continuous function.

The possibilities for the application of computer neural networks are presented by the performed statistical analysis of 720 granodiorites samples from the Panagyurishte ore region.

Възможности за приложение на компютърните невронни мрежи при статистически анализ на петрофизични данни

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