Petroleum Data Analytics (PDA)—Application of AI Machine Learning in Petroleum Engineering

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Petroleum Data Analytics (PDA) is the application of Artificial Intelligence and Machine Learning in petroleum engineering-related problem solving and decision-making. PDA will fully control the future of science and technology in the petroleum industry. It is highly important for the new generation of engineers, scientists, and petroleum professionals to develop a realistic scientific understanding of this technology.

Similar to the application of Artificial Intelligence and Machine Learning in other engineering-related disciplines, Petroleum Data Analytics addresses two major issues that determine the success or failure of this technology in petroleum industry: (a) differences in how AI and ML should be applied to engineering versus non-engineering-related problems and decision-making, and (b) how AI and ML is differentiated from traditional statistical analysis. Lack of success or mediocre outcomes of AI and ML in petroleum industry has been quite common. To a large degree, this has to do with a superficial understanding of this technology by some petroleum engineering domain experts and concentration on marketing schemes rather than science and technology.

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Special Issue

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Message from the Editor-in-Chief

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