Special Issue

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

Message from the Guest Editor

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.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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