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Application of AI in Petroleum Sciences and Underground Carbon Storage

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Message from the Guest Editors

Dear Colleagues,

Throughout the last decade, artificial intelligence (AI) has had a substantial impact on a wide range of businesses by improving their operational efficiency. AI applications in the petroleum sciences and underground carbon storage were pursued relatively late, although research in this area has been extensive and cannot be disregarded. This Special Issue aims to highlight how various AI techniques have been used to provide more accurate findings by avoiding extensive numerical/analytical modeling in petroleum sciences and carbon storage. In particular, AI is considered crucial for maximizing oil recovery performance and minimizing carbon emissions to cope with climate change.

Artificial intelligence and machine learning have become hot research topics in geophysics, geology, and petroleum engineering with the advancement of computer sciences. The research topic aims to collect recent advances related to artificial intelligence and machine learning in geosciences for advanced interpretation.

I look forward to receiving your contributions.

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