



Contribution of Artificial Intelligence/Big Data to Reservoir Engineering and Reservoir Modeling

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Message from the Guest Editors

Dear Colleagues,

The ever-growing volume of data in the oil and gas industry presents a unique opportunity to explore the contribution of artificial intelligence (AI) and big data to reservoir engineering and reservoir modeling.

This Special Issue delves into how AI algorithms can leverage vast datasets for predictive analytics and real-time decision making, leading to enhanced reservoir characterization, the identification of optimal production zones, unprecedented production forecasting, and rapid model improvement through real-time data analysis.

We seek original research that optimizes reservoir production while fostering sustainable practices, focusing on novel AI techniques, big data integration in workflows, real-time optimization strategies, and the role of AI in balancing resource recovery with long-term reservoir health. This collaboration between data scientists, engineers, and geoscientists aims to pave the way for a new era of data-driven reservoir management.





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