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## Artificial Intelligence Applications in Petroleum Exploration and Production

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Deadline for manuscript  
submissions:

**closed (15 December 2022)**

### Message from the Guest Editors

Dear Colleagues,

Recent advances in computer and data sciences have made artificial intelligence techniques a useful tool in tackling the problems in petroleum exploration and production. Intelligent exploration and production has become a hot topic both in academia and oil and gas companies. This Special Issue aims to solicit recent progress and best practices in the application of artificial intelligence techniques in petroleum exploration and production.

The following are some of the topics proposed for the Special Issue (not an exhaustive list):

- Application of AI in geophysics;
- Intelligent well log interpretation;
- Machine learning and big data in drilling and completion;
- Application of AI in petroleum production engineering;
- Artificial intelligence in reservoir characterization;
- Artificial intelligence in reservoir simulation;
- Proxy modeling for history matching and production optimization;
- Best practices and experiences in intelligent oil field pilot project.



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# Special Issue



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## Message from the Editor-in-Chief

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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