

## Special Issue

# Machine Learning Applications in Petroleum Industries and Geothermal Systems

### Message from the Guest Editors

We have organized a Special Issue on “Machine Learning Applications in Petroleum Industries and Geothermal Systems” in *Energies*, and we would like to invite you to contribute.

The goal of our Special Issue is to include comprehensive review papers, case-studies, short communications, recent results, and studies related to the application of ML for geothermal and petroleum industries. Applications may also include machine learning methods and data analytics to discover and exploit new subsurface signatures, engineer subsurface systems, estimate the state of the stress, increase hydrocarbon extraction efficiency from unconventional reservoirs, control and manipulate permeability, discover and exploit hidden/blind/enhanced geothermal systems, play fairway analysis, reduce the risk of geothermal energy development and exploration, optimize thermal power production through geothermal power plant or reservoir monitoring and analytics, improve prediction and detection of anomalous events during oil and gas and geothermal operations, and improve data analytical capabilities in geothermal operations.

---

### Guest Editors

Dr. Maruti Kumar Mudunuru

Dr. Kalyana Babu Nakshatrala

Dr. Zhao Hao

---

### Deadline for manuscript submissions

closed (30 June 2023)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/72048](https://mdpi.com/si/72048)

*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

[mdpi.com/journal/  
energies](https://mdpi.com/journal/energies)





# Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/journal/  
energies](https://mdpi.com/journal/energies)



## About the Journal

### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

---

### Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University  
Niccolò Cusano, 00166 Roma, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

CiteScore - Q1 (Control and Optimization)