Advances in Computational Intelligence and Machine Learning Techniques for Exploration and Production in the Oil and Gas Industry

Guest Editors:

Prof. Dr. Mauro Roisenberg

Statistics and Computer Science Department, Federal University of Santa Catarina, Florianopolis, Brazil

Prof. Dr. Wagner Moreira Lupinacci

Department of Geology and Geophysics, Federal Fluminense University (UFF), Niterói, Brazil

Deadline for manuscript submissions:
closed (25 September 2023)

Message from the Guest Editors

This Special Issue will collect original research or review articles on the recent development of Computational Intelligence and Machine Learning techniques applied to Exploration and Production (E&P) in the Oil and Gas Industry. The preferred subjects for the Special Issue include items like geological risk assessment, reservoir characterization, seismic interpretation (including horizons picking, facies classification, fault and salt domes detection and others), seismic inversion, production history matching, time-lapse inversion, planning and optimization of drilling and completion operations, digital twins for systems monitoring and maintenance. Any Computational Intelligence and Machine Learning research topic contributing to the energy area (focusing in the oil and gas sector) are welcome.

- computational intelligence and machine learning
- deep learning
- seismic interpretation
- seismic inversion
- production forecasting and optimization
- predictive maintenance

Special Issue

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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.

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 (*Engineering (miscellaneous)*)

Contact Us