1. Record Nr. UNINA990009623210403321

Autore	Istituto geografico militare
Titolo	Forlì [Documento cartografico] / IGM
Pubbl/distr/stampa	Firenze : IGM, 1930
Descrizione fisica	1 carta : color. ; 44 x 40 cm su foglio 50 x 48 cm
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Collocazione	MP Cass.2 IGM 100 (100)
Lingua di pubblicazione	Italiano
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Livello bibliografico	Monografia
Note generali	Il meridiano di riferimento è Monte Mario, Roma Nell'esemplare la rappresentazione dell'orografia è a sfumo

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Autore	Cranganu Constantin
Titolo	Artificial Intelligent Approaches in Petroleum Geosciences / / edited by Constantin Cranganu
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2024
ISBN	9783031527159
Edizione	[2nd ed. 2024.]
Descrizione fisica	1 online resource (288 pages)
Disciplina	665.5028563
Soggetti	Cogeneration of electric power and heat Fossil fuels Artificial intelligence Geotechnical engineering Mathematical models Mineralogy Fossil Fuel Artificial Intelligence Geotechnical Engineering and Applied Earth Sciences Mathematical Modeling and Industrial Mathematics

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface to the 2nd edition -- Preface to the 1st Edition -- 1. Applications of Data-Driven Techniques in Reservoir Modeling and Management -- Part 1: Waterflooding -- Part 2: Water Alternating Gas Injection, CO2 Storage, and Property Estimations -- 2. Comparison of three machine learning approaches in determining Total Organic Carbon (TOC): A case study from Marcellus shale formation, New York state -- 3. Gated Recurrent Units for Lithofacies Classification based on Seismic Inversion -- 4. Application of Artificial Neural Networks in Geoscience and Petroleum Industry -- 5. On Support Vector Regression to Predict Poisson's Ratio and Young's Modulus of Reservoir Rock -- 6. Use of Active Learning Method to Determine the Presence and Estimate the Magnitude of Abnormally Pressured Fluid Zones: A Case Study from the Anadarko Basin, Oklahoma -- 7. Active Learning Method for Estimating Missing Logs in Hydrocarbon Reservoirs -- 8. Improving the Accuracy of Active Learning Method via Noise Injection for Estimating Hydraulic Flow Units: An Example from a Heterogeneous Carbonate Reservoir -- 9. Well Log Analysis by Global Optimization-based Interval Inversion Method -- 10. Permeability Estimation in Petroleum Reservoir by Meta-heuristics: An Overview -- Index.
Sommario/riassunto	This book presents cutting-edge approaches to solving practical problems faced by professionals in the petroleum industry and geosciences. With various state-of-the-art working examples from experienced academics, the book offers an exposure to the latest developments in intelligent methods for oil and gas research, exploration, and production. This second edition is updated with new chapters on machine learning approaches, data-driven modelling techniques, and neural networks. The book delves into machine learning approaches, including evolutionary algorithms, swarm intelligence, fuzzy logic, deep artificial neural networks, KNN, decision tree, random forest, XGBoost, and LightGBM. it also analyzes the strengths and weaknesses of each method and emphasizes essential parameters like robustness, accuracy, speed of convergence, computer time, overlearning, and normalization. Integration, data handling, risk management, and uncertainty management are all crucial issues in petroleum geosciences. The complexities of these problems require a multidisciplinary approach that fuses petroleum engineering, geology, geophysics, and geochemistry. Essentially, this book presents an approach for integrating various disciplines such as data fusion, risk reduction, and uncertainty management. Whether you are a professional or a student, you can greatly benefit from the latest advancements in intelligent methods applied to oil and gas research. This comprehensive and updated book presents cutting-edge approaches and real-world examples that can help you in solving the intricate challenges of the petroleum industry and geosciences.