Constantin Cranganu Editor

Artificial Intelligent Approaches in Petroleum Geosciences

Second Edition



<u>Artificial Intelligent Approaches In Petroleum</u> <u>Geosciences</u>

Marwan Simaan, Fred Aminzadeh

Artificial Intelligent Approaches In Petroleum Geosciences:

Artificial Intelligent Approaches in Petroleum Geosciences Constantin Cranganu, 2024-07-15 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 Artificial Intelligent Approaches in Petroleum Geosciences Constantin Cranganu, Henri Luchian, Mihaela Elena Breaban, 2015 This book presents several intelligent approaches for tackling and solving challenging practical problems facing those in the petroleum geosciences and petroleum industry Written by experienced academics this book offers state of the art working examples and provides the reader with exposure to the latest developments in the field of intelligent methods applied to oil and gas research exploration and production It also analyzes the strengths and weaknesses of each method presented using benchmarking whilst also emphasizing essential parameters such as robustness accuracy speed of convergence computer time overlearning and the role of normalization The intelligent approaches presented include artificial neural networks fuzzy logic active learning method genetic algorithms and support vector machines amongst others Integration handling data of immense size and uncertainty and dealing with risk management are among crucial issues in petroleum geosciences The problems we have to solve in this domain are becoming too complex to rely on a single discipline for effective solutions and the costs associated with poor predictions e g dry holes increase Therefore there is a need to establish a new approach aimed at proper integration of disciplines such as petroleum engineering geology geophysics and geochemistry data fusion risk reduction and uncertainty management These intelligent techniques can be used for uncertainty analysis risk assessment data fusion and mining data analysis and interpretation and knowledge discovery from diverse data such as 3 D seismic geological data well logging and production data This book is intended for petroleum

scientists data miners data scientists and professionals and post graduate students involved in petroleum industry

Artificial Intelligence Trends for Data Analytics Using Machine Learning and Deep Learning Approaches K. Gayathri Devi, Mamata Rath, Nguyen Thi Dieu Linh, 2020-10-08 Artificial Intelligence AI when incorporated with machine learning and deep learning algorithms has a wide variety of applications today This book focuses on the implementation of various elementary and advanced approaches in AI that can be used in various domains to solve real time decision making problems The book focuses on concepts and techniques used to run tasks in an automated manner It discusses computational intelligence in the detection and diagnosis of clinical and biomedical images covers the automation of a system through machine learning and deep learning approaches presents data analytics and mining for decision support applications and includes case based reasoning natural language processing computer vision and AI approaches in real time applications Academic scientists researchers and students in the various domains of computer science engineering electronics and communication engineering and information technology as well as industrial engineers biomedical engineers and management will find this book useful By the end of this book you will understand the fundamentals of AI Various case studies will develop your adaptive thinking to solve real time AI problems Features Includes AI based decision making approaches Discusses computational intelligence in the detection and diagnosis of clinical and biomedical images Covers automation of systems through machine learning and deep learning approaches and its implications to the real world Presents data analytics and mining for decision support applications Offers case based reasoning **International Field Exploration and Development Conference 2023** Jia'en Lin, 2024-03-11 This book focuses on reservoir surveillance and management reservoir evaluation and dynamic description reservoir production stimulation and EOR ultra tight reservoir unconventional oil and gas resources technology oil and gas well production testing and geomechanics This book is a compilation of selected papers from the 13th International Field Exploration and Development Conference IFEDC 2023 The conference not only provides a platform to exchanges experience but also promotes the development of scientific research in oil gas exploration and production The main audience for the work includes reservoir engineer geological engineer enterprise managers senior engineers as well as students **Advances in Artificial** Intelligence -- SBIA 2010 Antonio Carlos da Rocha Costa, Rosa Maria Vicari, Flavio Tonidandel, 2010-10-08 This book constitutes the proceedings of the 20th Brazilian Symposium on Artificial Intelligence SBIA 2010 held in S o Bernardo do Campo Brazil in October 2010 The 31 papers presented were carefully reviewed and selected from 91 submissions The topics covered are ontologies knowledge representation and reasoning machine learning autonomous agents and multiagent systems natural language processing planning and scheduling constraints and search and logics for AI AI*IA 2011: **Artificial Intelligence Around Man and Beyond** Roberto Pirrone, Filippo Sorbello, 2011-09-15 This book constitutes the refereed proceedings of the 12th International Conference of the Italian Association for Artificial Intelligence AI IA 2011 held

in Palermo Italy in September 2011 The 31 revised full papers presented together with 3 invited talks and 13 posters were carefully reviewed and selected from 58 submissions. The papers are organized in topical sections on machine learning distributed AI robotics and MAS theoretical issues knowledge representation and reasoning planning cognitive modeling **Application of Soft Computing and Intelligent Methods in** natural language processing and AI applications **Geophysics** Alireza Hajian, Peter Styles, 2018-06-21 This book provides a practical guide to applying soft computing methods to interpret geophysical data It discusses the design of neural networks with Matlab for geophysical data as well as fuzzy logic and neuro fuzzy concepts and their applications In addition it describes genetic algorithms for the automatic and or intelligent processing and interpretation of geophysical data Intelligent Data Engineering and Automated Learning -IDEAL 2009 Emilio Corchado, Hujun Yin, 2009-09-29 The IDEAL conference boast a vibrant and successful history dating back to 1998 th and this edition marked the 10 anniversary an important milestone demonstrating the increasing popularity and high quality of the IDEAL conferences Burgos the capital of medieval Spain and a lively city today was a perfect venue to celebrate such an occasion The conference has become a unique established and broad int disciplinary forum for researchers and practitioners in many fields to interact with each other and with leading academics and industries in the areas of machine lea ing information processing data mining knowledge management bio informatics neuro informatics bio inspired models agents and distributed systems and hybrid systems IDEAL 2009 received over 200 submissions After a rigorous peer review process the International Programme Committee accepted 100 high quality papers to be cluded in the conference proceedings In this 10th edition a special emphasis was given on the organization of workshops and special sessions Two workshops were organized under the framework of IDEAL 2009 MIR Day 2009 and Nature Inspired Models for Industrial Applications Five special sessions were organized by leading researchers in their fields on various topics such as Soft Computing Techniques in Data Mining cent Advances on Swarm Based Computing Intelligent Computational Techniques in Medical Image Processing Advances on Ensemble Learning and Information Fusion and Financial and Business Engineering Modelling and Applications Advances in Geophysics, Tectonics and Petroleum Geosciences Mustapha Meghraoui, Narasimman Sundararajan, Santanu Banerjee, Klaus-G. Hinzen, Mehdi Eshagh, François Roure, Helder I. Chaminé, Said Maouche, André Michard, 2022-04-21 This edited book is based on the best papers accepted for presentation during the 2nd Springer Conference of the Arabian Journal of Geosciences CAJG 2 Tunisia in 2019 It is of interest to all researchers practicing geophysics seismology structural and petroleum geology With four sections spanning a large spectrum of geological and geophysical topics with particular reference to Middle East Mediterranean region and Africa this book presents a series of research methods that are nowadays in use for measuring quantifying and analyzing several geological domains It starts with a subsection dedicated to the latest research studies on seismic hazard and risk assessment in Africa presented during the 2019 IGCP 659 meeting organized alongside the CAJG 2 And it includes new research studies

on earthquake geodesy seismotectonics archeoseismology and active faulting well logging methods geodesy and exploration theoretical geophysics petroleum geochemistry petroleum engineering structural geology basement architecture and potential data tectonics and geodynamics and thermicity petroleum and other georesources. The edited book gives insights into the fundamental questions that address the genesis and evolution of our planet and this is based on data collection and experimental investigations under physical constitutive laws These multidisciplinary approaches combined with the geodynamics of tectonic provinces and investigations of potential zones of natural resources petroleum reservoirs provide the basis for a more sustainability in the economic development **Artificial Intelligence and Cognitive Computing** Miltiadis D. Lytras, Anna Visvizi, 2021-09-10 Artificial intelligence AI is a subject garnering increasing attention in both academia and the industry today The understanding is that AI enhanced methods and techniques create a variety of opportunities related to improving basic and advanced business functions including production processes logistics financial management and others As this collection demonstrates AI enhanced tools and methods tend to offer more precise results in the fields of engineering financial accounting tourism air pollution management and many more The objective of this collection is to bring these topics together to offer the reader a useful primer on how AI enhanced tools and applications can be of use in today s world In the context of the frequently fearful skeptical and emotion laden debates on AI and its value added this volume promotes a positive perspective on AI and its impact on society AI is a part of a broader ecosystem of sophisticated tools techniques and technologies and therefore it is not immune to developments in that ecosystem It is thus imperative that inter and multidisciplinary research on AI and its ecosystem is encouraged This collection contributes to that

Unconventional Hydrocarbon Resources Sid-Ali Ouadfeul, 2023-08-02 Unconventional Hydrocarbon Resources Enables readers to save time and effort in exploring and exploiting shale gas and other unconventional fossil fuels by making use of advanced predictive tools Unconventional Hydrocarbon Resources highlights novel concepts and techniques for the geophysical exploration of shale and other tight hydrocarbon reservoirs focusing on artificial intelligence approaches for modeling and predicting key reservoir properties such as pore pressure water saturation and wellbore stability Numerous application examples and case studies present real life data from different unconventional hydrocarbon fields such as the Barnett Shale USA the Williston Basin USA and the Berkine Basin Algeria Unconventional Hydrocarbon Resources explores a wide range of reservoir properties including modeling of the geomechanics of shale gas reservoirs petrophysics analysis of shale and tight sand gas reservoirs and prediction of hydraulic fracturing effects fluid flow and permeability Sample topics covered in Unconventional Hydrocarbon Resources include Calculation of petrophysical parameter curves for non conventional reservoir modeling and characterization Comparison of the Levenberg Marquardt and conjugate gradient learning methods for total organic carbon prediction in the Barnett shale gas reservoir Use of pore effective compressibility for quantitative evaluation of low resistive pays and identifying sweet spots in shale reservoirs Pre drill pore pressure

estimation in shale gas reservoirs using seismic genetic inversion Using well log data to classify lithofacies of a shale gas reservoir Unconventional Hydrocarbon Resources is a valuable resource for researchers and professionals working on unconventional hydrocarbon exploration and in geoengineering projects **PVT Property Correlations** Ahmed El-Banbi, Ahmed Alzahabi, Ahmed El-Maraghi, 2018-04-20 PVT properties are necessary for reservoir well performance forecast and optimization In absence of PVT laboratory measurements finding the right correlation to estimate accurate PVT properties could be challenging PVT Property Correlations Selection and Estimation discusses techniques to properly calculate PVT properties from limited information This book covers how to prepare PVT properties for dry gases wet gases gas condensates volatile oils black oils and low gas oil ration oils It also explains the use of artificial neural network models in generating PVT properties It presents numerous examples to explain step by step procedures in using techniques designed to deliver the most accurate PVT properties from correlations Complimentary to this book is PVT correlation calculator software Many of the techniques discussed in this book are available with the software This book shows the importance of PVT data provides practical tools to calculate PVT properties and helps engineers select PVT correlations so they can model optimize and forecast their assets Understand how to prepare PVT data in absence of laboratory reports for all fluid types Become equipped with a comprehensive list of PVT correlations and their applicability ranges Learn about ANN models and their applications in providing PVT data Become proficient in selecting best correlations and improving correlations results

Artificial Intelligence and Expert Systems in Petroleum Exploration Marwan Simaan, Fred Aminzadeh, 1989

Unconventional Methods for Geoscience, Shale Gas and Petroleum in the 21st Century J. Watada,S.C. Tan,P.-C. Lin,2023-09-11 Since the turn of the century geology has advanced dramatically with materials derived from extra terrestrial sources meaning that it now encompasses cosmology and new technologies providing ever more sophisticated possibilities for the conducting of research This book Unconventional Methods for Geoscience Shale Gas and Petroleum in the 21st Century aims to provide research directions for geology in the 21st century As Eric Hobsbawm wrote it is difficult to write the history of one s own days and selecting influential methods was no easy task but an attempt has been made to include the most influential papers that represent the smart geology of the first few decades of the 21st century The book presents 22 papers the first serves as an introduction to biology which is now expanding into the science of the cosmos following the discovery of previously missing information and the remaining 21 papers are divided into 3 sections entitled Modelling Simulation and Optimization The importance of theoretical approaches from physics mathematics and statistics underlying meta heuristic methods knowledge and approaches is acknowledged and there is a chapter dedicated to deep learning The book contributes to the exploration of various possible solutions to challenging problems in both the Earth's geology and that of the cosmos and will be of interest to all those working in the field The use of geosciences for exploring and predicting natural resources Ahmed M. Eldosouky, Amin Beiranvand Pour, Luan Thanh Pham, Biswajeet Pradhan, 2023-03-03

Intelligence D. Sleeman, N. O. Bernsen, 2019-12-06 Originally published in 1992 this title reviews seven major subareas in artificial intelligence at that time knowledge acquisition logic programming and representation machine learning natural language vision the design of an AI programming environment and medicine a major application area of AI This volume was an attempt primarily to inform fellow AI workers of recent European work in AI It was hoped that researchers in sister disciplines such as computer science and linguistics would gain a deeper understanding of the assumptions techniques and Coring Methods and Systems Rahman Ashena, Gerhard Thonhauser, 2018-05-02 This book is a tools of contemporary AI practical guide to downhole rock sampling and coring concepts methods systems and procedures for practitioners and researchers Its chapters are based upon years of extensive studies and research about the coring methods and via direct and continuous communication and consultation obtained from various service and operator companies such as Baker Hughes GE NOV OMV and Sandvik The contributors discuss the state of the art coring methods and systems mainly used in the petroleum industry which include conventional coring wireline continuous coring invasion mitigation coring low invasion gel coring sponge coring jam detection anti jamming full closure safe coring and tripping oriented coring pressure in situ coring logging while coring motor coring mini coring coiled Tubing Coring and underbalanced coring The contributors provide practical and applicable understanding of the procedures of these coring methods and systems as well as the specific core barrel components working mechanisms and schematics of the tools and processes used Because Coring Methods and Systems analyses and compares the core barrels used in both petroleum and mining industries it enhances the communication and may allow knowledge transfer between the two industries As core damage is a serious issue during coring and handling jeopardizing correct calibration of exploration data Coring Methods and Systems has greatly focused on its identification and its mitigation Therefore it can be used as an ideal source for geologists core analysts and reservoir Deep Learning Techniques and Optimization Strategies in Big Data engineers to ensure the retrieval of high quality cores Analytics Thomas, J. Joshua, Karagoz, Pinar, Ahamed, B. Bazeer, Vasant, Pandian, 2019-11-29 Many approaches have sprouted from artificial intelligence AI and produced major breakthroughs in the computer science and engineering industries Deep learning is a method that is transforming the world of data and analytics Optimization of this new approach is still unclear however and there s a need for research on the various applications and techniques of deep learning in the field of computing Deep Learning Techniques and Optimization Strategies in Big Data Analytics is a collection of innovative research on the methods and applications of deep learning strategies in the fields of computer science and information systems While highlighting topics including data integration computational modeling and scheduling systems this book is ideally designed for engineers IT specialists data analysts data scientists engineers researchers academicians and students seeking current research on deep learning methods and its application in the digital industry

Data-Driven Analytics for the Geological Storage of CO2 Shahab Mohaghegh, 2018-05-20 Data driven analytics is enjoying unprecedented popularity among oil and

gas professionals Many reservoir engineering problems associated with geological storage of CO2 require the development of numerical reservoir simulation models This book is the first to examine the contribution of artificial intelligence and machine learning in data driven analytics of fluid flow in porous environments including saline aguifers and depleted gas and oil reservoirs Drawing from actual case studies this book demonstrates how smart proxy models can be developed for complex numerical reservoir simulation models Smart proxy incorporates pattern recognition capabilities of artificial intelligence and machine learning to build smart models that learn the intricacies of physical mechanical and chemical interactions using precise numerical simulations. This ground breaking technology makes it possible and practical to use high fidelity complex numerical reservoir simulation models in the design analysis and optimization of carbon storage in geological formations The Practical Handbook of Well Control Rahman Ashena, 2025-02-21 The Practical Handbook of Well Control projects teaches readers to safeguard well safety and integrity in drilling well engineering Offering an applied and scientific point of view it covers fundamental aspects of well control and includes practical procedures and well control methods for land and offshore operations It features a wealth of questions to commonly encountered problems and comprehensive answers at the end of each topical discussion to test reader comprehension Written in a concise accessible way by experienced oilfield and academic experts Covers all related technical subjects of well control Describes modern aspects of well control including automatic well control advances in outflow measurement artificial intelligence and IoT techniques for early kick detection mud gas separators and riser gas modeling Includes case studies to familiarize readers with real world problems and solutions Offers a full explanation of each problem to familiarize readers with commonly faced issues Features sample exercises with comprehensive answers useful for IWCF and IADC exams This handbook serves as a valuable reference and workbook for field drilling and workover engineers in the energy sector

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