

# DOWNLOAD ARTIFICIAL INTELLIGENT APPROACHES IN PETROLEUM GEOSCIENCES

AI in geosciences - GeoHero - AI in geosciences - GeoHero by GeoHero 1,732 views 1 year ago 6 minutes, 6 seconds - Professor Luigi Lombardo talks about the importance of **artificial intelligence**, in **geosciences**, and how we can benefit from it in ...

Intro

Why is AI important

Statistics vs Deep Learning

Applications

Janet Watson 2018: Machine Learning Assisted Petroleum Geoscience - Janet Watson 2018: Machine Learning Assisted Petroleum Geoscience by The Geological Society 5,277 views 5 years ago 29 minutes - A presentation from Eirik Larsen/Chris Jackson (Earth Science Analytics) Thursday 1 March 2018 Machine Learning Assisted ...

Geology as a Predictive Science

Why Is It So Difficult To Predict Reservoir Quality

Supervised Learning

Classification

Permeability

Confusion Matrix

Correlation Panels

Permeability Depth Plot

Artificial Intelligence in Petroleum Engineering - SPE \"PetroTalk\" by: Shahab Mohaghegh - Artificial Intelligence in Petroleum Engineering - SPE \"PetroTalk\" by: Shahab Mohaghegh by Shahab D. Mohaghegh 1,703 views 1 year ago 10 minutes, 28 seconds - (A) **Artificial Intelligence**, experts without specific science and engineering expertise incorrectly solve science and ...

Artificial Intelligence \u0026amp; Machine Learning in the Oil \u0026amp; Gas Industry | Zoom Webinar Recording - Artificial Intelligence \u0026amp; Machine Learning in the Oil \u0026amp; Gas Industry | Zoom Webinar Recording by Petroleum Technology Research Centre (PTRC) 13,369 views 3 years ago 1 hour, 10 minutes - Research experts at both the University of Regina and the Saskatchewan Research Council discuss the application of ...

Housekeeping Notes

Ai Does Not Replace the Human Expertise and Judgment

Saskatchewan Research Council

Fundamentals of Ai and Machine Learning

The Importance of Ai

Being Competitive

Output

Use of Ai

Reservoir Rock Properties

Visual Analytics

Time Series Analysis

Content

Introduction and Objectives

Sensitivity Analysis

Predict the Variation of Dynamic Variations Parameters from Static Parameters

History Matching

Conclusion

Decision Trees

Closing Remarks

Application of Artificial Intelligence and Machine Learning in Petroleum Engineering - Application of Artificial Intelligence and Machine Learning in Petroleum Engineering by Petro-Teach 7,294 views 3 years ago 59 minutes - PetroTeach webinar by Professor Shahab Mohaghegh.

Introduction

Topics

Petroleum Data Analytics

Hard Data

Hard Data Analytics

Measured Data

Data Driven Model

Big Data Analytics

Engineering Application

Application

AI Machine Learning

Neural Networks

Fuzzy Logic

Evolutionary Computing

Modeling Physics

Engineering

Image Recognition

Face Recognition

General Intelligence

How does human brain learn

Role of domain expertise

Traditional Statistics vs AI and Machine Learning

Correlation vs Causation

AI in Action: A Unified Approach to Oil & Gas Exploration - AI in Action: A Unified Approach to Oil & Gas Exploration by Ruslan Miftakhov - AI Research 1,837 views 8 months ago 4 minutes, 56 seconds - Discover the innovative application of AI in oil & gas exploration. We dive into a unified AI workflow that streamlines subsurface ...

Geoscience: How to Explain AI/ML ? - Geoscience: How to Explain AI/ML ? by Ruslan Miftakhov - AI Research 776 views 1 year ago 6 minutes, 2 seconds - In this video, I speak with the KAUST team who took first place in the EAGE hackathon for Explainable AI. Resources: \* EAGE ...

15 Artificial Intelligence in geology - 15 Artificial Intelligence in geology by MiningQld 11,864 views 4 years ago 17 minutes - Presentation from Digging Deeper 2018.

Intro

What is AI

Artificial Intelligence in Geology

Go Drill Something

Targeting System

Orfox

AI And The Future Of Oil And Gas Industry - AI And The Future Of Oil And Gas Industry by Complex AI 972 views 1 year ago 4 minutes, 45 seconds - In this YouTube video, the creator discusses the future of the **oil and gas**, industry in relation to advancements in **artificial**, ...

Morris II: World's First AI Worm: Morris II AI Worm can Target ChatGPT and Gemini - Morris II: World's First AI Worm: Morris II AI Worm can Target ChatGPT and Gemini by Astrolytics 55 views 1 day ago 8 minutes, 18 seconds - Morris II: World's First AI Worm: Morris II AI Worm can Target ChatGPT and Gemini Meet Morris II, the world's first AI worm that can ...

Research talk: AI for drug discovery - Research talk: AI for drug discovery by Microsoft Research 9,002 views 2 years ago 17 minutes - Speakers: Tong Wang, Researcher, Microsoft Research Asia Yingce Xia, Senior Researcher, Microsoft Research Asia Drug ...

Drug virtual screening . Goal select active drug candidates from tremendous datasets  
Molecular docking approach for drug screening . Molecular docking - A kind of molecular dynamics with physical force fields + Predict the binding conformation of a ligand in the Limitation  
Deep learning approaches Approach 1 take intramolecular and intermolecular Interactions as a whole  
New Horizons in Generative AI: Machine Learning for Translatable Drug Discovery - New Horizons in Generative AI: Machine Learning for Translatable Drug Discovery by Stanford HAI 3,192 views 4 months ago 38 minutes - AI has entered the public sphere, catalyzed by the recent wave of generative AI. But there is much more that constitutes AI ...  
Petros Koumoutsakos - Alloys: Artificial Intelligence and Scientific Computing for Fluid Mechanics - Petros Koumoutsakos - Alloys: Artificial Intelligence and Scientific Computing for Fluid Mechanics by Institute for Pure \u0026 Applied Mathematics (IPAM) 1,108 views 1 year ago 58 minutes - Recorded 11 January 2023.  
Petros Koumoutsakos of Harvard University presents \"Alloys: **Artificial Intelligence**, and Scientific ...  
Machine Learning for Drug Discovery (Explained in 2 minutes) - Machine Learning for Drug Discovery (Explained in 2 minutes) by Data Professor 64,190 views 3 years ago 2 minutes, 38 seconds - In a little over 2 minutes, I will be explaining how Machine Learning can be used for Drug Discovery. I'll be providing a high-level ...  
OpenAI Insider Talks About the Future of AGI + Scaling Laws of Neural Nets - OpenAI Insider Talks About the Future of AGI + Scaling Laws of Neural Nets by Wes Roth 76,108 views 2 days ago 18 minutes - LINKS: The Paper (mostly non-sense, but a few interesting studies mentioned); <https://t.co/idPy12CluW> ...  
NASA engineers use A.I. to design spacecraft parts - NASA engineers use A.I. to design spacecraft parts by NBC News 11,362 views 11 months ago 4 minutes, 36 seconds - NASA research engineers are pioneering the use of **artificial intelligence**, to design customized parts for spacecrafts. NBC's Tom ...  
How to Realistically Decarbonize the Oil and Gas Industry | Bjørn Otto Sverdrup | TED Countdown - How to Realistically Decarbonize the Oil and Gas Industry | Bjørn Otto Sverdrup | TED Countdown by TED 52,063 views 2 years ago 13 minutes, 44 seconds - Bjørn Otto Sverdrup leads the **Oil and Gas**, Climate Initiative (OCGI), which gathers the CEOs of twelve of the world's largest **oil and**, ...  
MIT Introduction to Deep Learning | 6.S191 - MIT Introduction to Deep Learning | 6.S191 by Alexander Amini 1,777,670 views 11 months ago 58 minutes - MIT Introduction to Deep Learning 6.S191: Lecture 1 \*New 2023 Edition\* Foundations of Deep Learning Lecturer: Alexander ...  
Introduction  
Course information  
Why deep learning?  
The perceptron  
Perceptron example  
From perceptrons to neural networks  
Applying neural networks  
Loss functions  
Training and gradient descent  
Backpropagation  
Setting the learning rate  
Batched gradient descent  
Regularization: dropout and early stopping  
Artificial Intelligence in the Oil and Gas Industry - Artificial Intelligence in the Oil and Gas Industry by The Tesseract Academy 1,214 views 2 years ago 2 minutes, 47 seconds - Artificial intelligence, and data science are disrupting the world of **oil and gas**,. In this short video, Synthia and Dave explain what ...  
LC Kuwait: Application of Machine Learning \u0026 Artificial Intelligence In Geosciences - LC Kuwait: Application of Machine Learning \u0026 Artificial Intelligence In Geosciences by EAGE Channel 717 views 9 months ago 1 hour, 4 minutes - An event organized by EAGE Local Chapter Kuwait on 16 May 2023 featuring guest speaker Agus Abdullah, PhD (Universitas ...  
Feb 2021: Scientific Machine Learning: Overview and Discussion of Applications in Petroleum Eng - Feb 2021: Scientific Machine Learning: Overview and Discussion of Applications in Petroleum Eng by Texas CSEE 719 views 3 years ago 55 minutes - Scientific Machine Learning or SciML is a relatively new phrase that is used to describe the intersection of data science, machine ...

Introduction  
Welcome  
Scientific Machine Learning  
Engineering Simulation  
Example  
Singlephase flow  
Heterogeneous materials  
Paradynamics  
Linear Regression  
Bucket Lever Problem  
Physics and Formula Networks  
Limitations of Physics and Formula Networks  
Variational Pins  
Residual Equation  
Inverse Problem  
Loss Function  
Computational Considerations  
JAX  
Summary  
Digital Reservoir Characterization Technology  
Direct  
Questions  
Constraints  
Commercial software

Application of AI and Machine Learning in Oil and Gas industry - Application of AI and Machine Learning in Oil and Gas industry by Code Wings ? 1,591 views 2 years ago 2 minutes, 18 seconds - Application of AI and Machine Learning in **Oil and Gas**, sector. #CodeWings #ai #ml #bp #microsoft.

Advanced Geophysical Research and It's future | Machine Learning In Geophysics - Advanced Geophysical Research and It's future | Machine Learning In Geophysics by Geophysics Insight 2,432 views 1 year ago 43 minutes - This talk was delivered to the PhD researcher to open their mind with the topic of Advanced Geophysical Research \u0026 It's future ...

Artificial Intelligence Transforms Offshore Analog Fields Into Digital Fields - Artificial Intelligence Transforms Offshore Analog Fields Into Digital Fields by Society of Petroleum Engineers 249 views 4 years ago 41 seconds – play Short - Digitizing an oil field is an exciting but costly exercise that requires close supervision to avoid inefficiency. Read full article on JPT: ...

Goldspot Discoveries - A.I. in Mineral Exploration - #DisruptMining - Goldspot Discoveries - A.I. in Mineral Exploration - #DisruptMining by Palisades Gold Radio 15,174 views 7 years ago 2 minutes, 29 seconds - Goldspot Discoveries is at the forefront of **artificial**, learning and machine learning in the mineral exploration business.

15a Q+A Artificial Intelligence in geology - 15a Q+A Artificial Intelligence in geology by MiningQld 216 views 4 years ago 10 minutes, 14 seconds - Presentation from Digging Deeper 2018.

Intro  
How long does it take to put the data in  
Why use Queensland data

Data cleaning  
Data processing  
Future projects

Manual is not always the best way. AI in Geophysics - Manual is not always the best way. AI in Geophysics by Ruslan Miftakhov - AI Research 1,912 views 2 years ago 7 minutes, 58 seconds - This video is about the introduction to the seismic facies classification problem. After watching, you will learn what facies detection ...

Introduction  
What is seismic facies detection

Manual delineation

How many facies?

Machine Learning facies classification

Deep Learning methods

Challenges

Bonus

Artificial Intelligence and Machine Learning in Geology - Artificial Intelligence and Machine Learning in Geology by Ricardo Valls 378 views 4 years ago 27 minutes - Speech at the Future of Mines 2019, Denver. Ricardo Valls ORCID iD <https://orcid.org/0000-0002-5421-0914> Other IDs Scopus ...

Machine Learning and Artificial Intelligence in the Geosciences (Deepak Subramani, CDS, IISc) - Machine Learning and Artificial Intelligence in the Geosciences (Deepak Subramani, CDS, IISc) by Prof. Deepak Subramani, IISc 283 views 1 year ago 45 minutes - Machine Learning and **Artificial Intelligence**, Applications in the field of **Geosciences**., Satellite Oceanography. Use of Deep ...

Intro

Geosciences: Data and Models

Traditional Science vs Data Science

Doing Science with Small Data and Big Physics Models

Scope of AI/ML in Geoscience Applications

Where AI/ML should be applied with caution/is not useful

Background and Motivation

Feature in Focus: Gulf Stream and Rings

Challenges of Classical Methods

Semantic Segmentation - Literature

W-Net Architecture

Ablation Study and Different Architectures

Test Images

Intermediate Predictions

Detection on Unseen Images

Optimal Planning Problem Statement

Human-Elephant Conflict

Sneak Peak into the ABM in development

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