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A
B
C
D
E
F
G
H
I
J
K
L
M
N
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P
Q
R

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Applications of Artificial Intelligence Techniques in the Petroleum Industry

Book - 2020



Authors:
Abdolhossein Hemmati-Sarapardeh, Aydin Larestani, ... Sassan Hajirezaie

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Applications of Artificial Intelligence techniques in the Petroleum Industry gives engineers a critical resource to help them understand the machine learning that will solve specific engineering challenges. The reference begins with fundamentals, covering preprocessing of data, types of intelligent models, and training and optimization algorithms. The book moves on to methodically address artificial intelligence technology and applications by the upstream sector, covering exploration, drilling, reservoir and production engineering. Final sections cover current gaps and future challenges.

teaches how to apply machine learning algorithms that work best in exploration, drilling, reservoir or production engineering

- Helps readers increase their existing knowledge on intelligent data modeling, machine learning and artificial intelligence, with foundational chapters covering the preprocessing of data and training on algorithms
- Provides tactics on how to cover complex projects such as shale gas, tight oils, and other types of unconventional reservoirs with more advanced model input

Details

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Game theory and fisheries

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Game theory studies the strategic interactions between and among decision makers, players, through mathematical models called games. This paper presents an overview on the evolution of the application of game theory to fisheries economics. The first applications emerged in the late 1970s.

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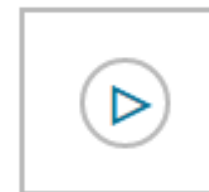
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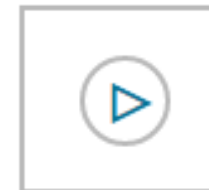
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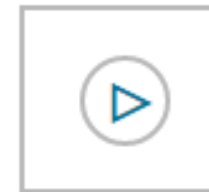
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