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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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Description

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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Imprint Gulf Professional Publishing	No. of pages 322	DOI https://doi.org/10.1016/C2018-0-04421-7	

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Game theory and fisheries

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Abstract

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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Tetrahedron
Volume 73, Issue 1, 5 January 2017, Pages 1-7

One-pot synthesis of novel fused pentacyclic chromenopyrimidobenzimidazolones and benzimidazolyl-chromenyl-substituted thiazolidinones

Nicolaos M. Drosos^a, Chrisoula Kakoulidou^a, Marianna Raftopoulou^a, Julia Stephanidou-Stephanatou^a, Constantinos A. Tsoleridis^{*,a}

<https://doi.org/10.1016/j.tet.2016.11.022>

Abstract

The ultrasound promoted synthesis of a number of novel fused pentacyclic chromenopyrimido[1,2- α]benzimidazolones by the one-pot reaction of 3-formylchromones with 2-aminobenzimidazole is described. Moreover, the isolated pentacyclic chromone derivatives upon microwave irradiation with 2-mercaptocarboxylic acids afforded benzimidazolyl-chromenylthiazolidinones incorporating three pharmacophoric heterocycles; the same thiazolidinones were also formed through a multicomponent reaction under microwave irradiation involving 3-formylchromones, aminobenzimidazole and 2-mercaptocarboxylic acids. The structural elucidation of the products was accomplished by 1D and 2D NMR experiments and for thiazolidinones was also confirmed by X-ray crystallographic analysis. Full assignment of all ^1H and ^{13}C NMR chemical shifts has been unambiguously achieved. The proposed reaction mechanism is also discussed.

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2-Aminobenzimidazole

Molecular formula
 $\text{C}_7\text{H}_7\text{N}_3$

Molecular weight
133.153

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934-32-7

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1H-benzimidazol-2-amine

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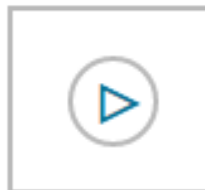


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