Haibin Di

List of Publications by Year
in descending order

49 papers	965 citations	471509 17 h-index	526287 27 g-index
49 all docs	49 docs citations	49 times ranked	416 citing authors

#	ARTICLE	IF	CITATIONS
1	Successful leveraging of image processing and machine learning in seismic structural interpretation: A review. The Leading Edge, 2018, 37, 451-461.	0.7	78
2	Gray-level transformation and Canny edge detection for 3D seismic discontinuity enhancement. Computers and Geosciences, 2014, 72, 192-200.	4.2	68
3	Subsurface Structure Analysis Using Computational Interpretation and Learning: A Visual Signal Processing Perspective. IEEE Signal Processing Magazine, 2018, 35, 82-98.	5.6	56
4	Seismic stratigraphy interpretation by deep convolutional neural networks: A semisupervised workflow. Geophysics, 2020, 85, WA77-WA86.	2.6	55
5	3D Seismic Flexure Analysis for Subsurface Fault Detection and Fracture Characterization. Pure and Applied Geophysics, 2017, 174, 747-761.	1.9	43
6	Multi-attribute k-means clustering for salt-boundary delineation from three-dimensional seismic data. Geophysical Journal International, 2018, 215, 1999-2007.	2.4	43
7	Improving seismic fault detection by super-attribute-based classification. Interpretation, 2019, 7, SE251-SE267.	1.1	42
8	Developing a seismic texture analysis neural network for machine-aided seismic pattern recognition and classification. Geophysical Journal International, 2019, 218, 1262-1275.	2.4	39
9	A new algorithm for evaluating 3D curvature and curvature gradient for improved fracture detection. Computers and Geosciences, 2014, 70, 15-25.	4.2	38
10	Patch-level MLP classification for improved fault detection. , 2018, , .		36
11	Seismic-fault detection based on multiattribute support vector machine analysis. , 2017, , .		34
12	Improved estimates of seismic curvature and flexure based on 3D surface rotation in the presence of structure dip. Geophysics, 2016, 81, IM13-IM23.	2.6	33
13	Extreme curvature and extreme flexure analysis for fracture characterization from 3D seismic data: New analytical algorithms and geologic implications. Geophysics, 2015, 80, IM11-IM20.	2.6	28
14	Efficient volumetric extraction of most positive/negative curvature and flexure for fracture characterization from 3D seismic data. Geophysical Prospecting, 2016, 64, 1454-1468.	1.9	27
15	Nonlinear gray-level co-occurrence matrix texture analysis for improved seismic facies interpretation. Interpretation, 2017, 5, SJ31-SJ40.	1.1	23
16	A comparison of seismic saltbody interpretation via neural networks at sample and pattern levels. Geophysical Prospecting, 2020, 68, 521-535.	1.9	23
17	A comparative study of texture attributes for characterizing subsurface structures in seismic volumes. Interpretation, 2018, 6, T1055-T1066.	1.1	20
18	3D structural-orientation vector guided autotracking for weak seismic reflections: A new tool for shale reservoir visualization and interpretation. Interpretation, 2018, 6, SN47-SN56.	1.1	20

#	Article	IF	Citations
19	Semi‑automatic fault/fracture interpretation based on seismic geometry analysis. Geophysical Prospecting, 2019, 67, 1379-1391.	1.9	20
20	Wasserstein cycle-consistent generative adversarial network for improved seismic impedance inversion: Example on 3D SEAM model. , 2020, , .		20
21	Accelerating seismic fault and stratigraphy interpretation with deep CNNs: A case study of the Taranaki Basin, New Zealand. The Leading Edge, 2020, 39, 727-733.	0.7	20
22	Why using CNN for seismic interpretation? An investigation. , 2018, , .		18
23	Real-time seismic-image interpretation via deconvolutional neural network. , 2018, , .		17
24	Imposing interpretational constraints on a seismic interpretation convolutional neural network. Geophysics, 2021, 86, IM63-IM71.	2.6	17
25	Estimating subsurface properties using a semisupervised neural network approach. Geophysics, 2022, 87, IM1-IM10.	2.6	17
26	Multi-Attributes and Neural Network-Based Fault Detection in 3D Seismic Interpretation. Advanced Materials Research, 2013, 838-841, 1497-1502.	0.3	13
27	Using relative geologic time to constrain convolutional neural network-based seismic interpretation and property estimation. Geophysics, 2022, 87, IM25-IM35.	2.6	13
28	A novel approach for automated detection of listric faults within migrated seismic volumes. Journal of Applied Geophysics, 2018, 155, 94-101.	2.1	12
29	Semi-supervised seismic and well log integration for reservoir property estimation. , 2020, , .		10
30	Three‑dimensional curvature analysis of seismic waveforms and its interpretational implications. Geophysical Prospecting, 2019, 67, 265-281.	1.9	9
31	Noncontact Measurement and Detection of Instantaneous Seismic Attributes Based on Complementary Ensemble Empirical Mode Decomposition. Energies, 2017, 10, 1655.	3.1	8
32	Machine learning-assisted seismic interpretation with geologic constraints. , 2019, , .		7
33	Using relative geologic time to constrain seismic facies classification using neural networks. , 2021, , .		7
34	Reflector dip estimates based on seismic waveform curvature/flexure analysis. Interpretation, 2019, 7, SC1-SC9.	1.1	6
35	Deep learning applications for wind farms site characterization and monitoring. , 2021, , .		6
36	3D curvature analysis of seismic waveform and its interpretational implications. , 2017, , .		6

#	Article	IF	Citations
37	A new analytical method for azimuthal curvature analysis from 3D seismic data. , 2014, , .		5
38	Multiscale fusion for seismic geometric attribute enhancement. , 2017, , .		5
39	Gray-level transformation and Canny edge detection for 3D seismic discontinuity enhancement. , 2013, , .		4
40	A new method for dip estimation based on seismic waveform curvature/flexure analysis. , 2017, , .		4
41	Dip interpolation for improved multitrace seismic-attribute analysis. , 2017, , .		3
42	Fault Detection Using Attention Models Based on Visual Saliency. , 2018, , .		3
43	The classification and interpretation of the polyphase fault network on the North Slope, Alaska using deep learning. , 2020, , .		3
44	Improved seismic texture analysis based on nonlinear gray-level transformation. , 2016, , .		2
45	Deep learning for end-to-end subsurface modeling and interpretation: An example from the Groningen gas field. The Leading Edge, 2022, 41, 259-267.	0.7	2
46	Reflection geometry-based strain analysis from 3D seismic data. , 2015, , .		1
47	Fault-Guided Seismic Stratigraphy Interpretation via Semi-Supervised Learning. , 2021, , .		1
48	Workshop Preview: Data Analytics and Machine Learning Hackathon 2021: A deep dive into the open-source data challenge for E&P. The Leading Edge, 2021, 40, 68-71.	0.7	0
49	Special section introduction: Automated approaches to interpretation. Interpretation, 0, , 1-2.	1.1	0