

Xuan-Nam Bui

List of Publications by Year in descending order

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87
papers

3,179
citations

126708

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times ranked

1491
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel artificial intelligence technique to predict compressive strength of recycled aggregate concrete using ICA-XGBoost model. <i>Engineering With Computers</i> , 2021, 37, 3329-3346.	3.5	176
2	Predicting Blast-Induced Air Overpressure: A Robust Artificial Intelligence System Based on Artificial Neural Networks and Random Forest. <i>Natural Resources Research</i> , 2019, 28, 893-907.	2.2	155
3	Prediction of Blast-Induced Ground Vibration in an Open-Pit Mine by a Novel Hybrid Model Based on Clustering and Artificial Neural Network. <i>Natural Resources Research</i> , 2020, 29, 691-709.	2.2	148
4	Novel Soft Computing Model for Predicting Blast-Induced Ground Vibration in Open-Pit Mines Based on Particle Swarm Optimization and XGBoost. <i>Natural Resources Research</i> , 2020, 29, 711-721.	2.2	116
5	A new soft computing model for estimating and controlling blast-produced ground vibration based on Hierarchical K-means clustering and Cubist algorithms. <i>Applied Soft Computing Journal</i> , 2019, 77, 376-386.	4.1	115
6	Developing an XGBoost model to predict blast-induced peak particle velocity in an open-pit mine: a case study. <i>Acta Geophysica</i> , 2019, 67, 477-490.	1.0	107
7	A comparative study of artificial neural networks in predicting blast-induced air-blast overpressure at Deo Nai open-pit coal mine, Vietnam. <i>Neural Computing and Applications</i> , 2020, 32, 3939-3955.	3.2	107
8	Prediction of Blast-induced Air Over-pressure in Open-Pit Mine: Assessment of Different Artificial Intelligence Techniques. <i>Natural Resources Research</i> , 2020, 29, 571-591.	2.2	102
9	A Novel Artificial Intelligence Approach to Predict Blast-Induced Ground Vibration in Open-Pit Mines Based on the Firefly Algorithm and Artificial Neural Network. <i>Natural Resources Research</i> , 2020, 29, 723-737.	2.2	89
10	Humidity control materials prepared from diatomite and volcanic ash. <i>Construction and Building Materials</i> , 2013, 38, 1066-1072.	3.2	87
11	Prediction of slope failure in open-pit mines using a novel hybrid artificial intelligence model based on decision tree and evolution algorithm. <i>Scientific Reports</i> , 2020, 10, 9939.	1.6	77
12	Glass-ceramic from mixtures of bottom ash and fly ash. <i>Waste Management</i> , 2012, 32, 2306-2314.	3.7	74
13	Computational Intelligence Model for Estimating Intensity of Blast-Induced Ground Vibration in a Mine Based on Imperialist Competitive and Extreme Gradient Boosting Algorithms. <i>Natural Resources Research</i> , 2020, 29, 751-769.	2.2	72
14	A Novel Combination of Whale Optimization Algorithm and Support Vector Machine with Different Kernel Functions for Prediction of Blasting-Induced Fly-Rock in Quarry Mines. <i>Natural Resources Research</i> , 2021, 30, 191-207.	2.2	69
15	Prediction of ultimate bearing capacity through various novel evolutionary and neural network models. <i>Engineering With Computers</i> , 2020, 36, 671-687.	3.5	65
16	Predicting Blast-Induced Ground Vibration in Open-Pit Mines Using Vibration Sensors and Support Vector Regression-Based Optimization Algorithms. <i>Sensors</i> , 2020, 20, 132.	2.1	62
17	Predicting roof displacement of roadways in underground coal mines using adaptive neuro-fuzzy inference system optimized by various physics-based optimization algorithms. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021, 13, 1452-1465.	3.7	58
18	Developing a novel artificial intelligence model to estimate the capital cost of mining projects using deep neural network-based ant colony optimization algorithm. <i>Resources Policy</i> , 2020, 66, 101604.	4.2	58

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19	Evaluating and predicting blast-induced ground vibration in open-cast mine using ANN: a case study in Vietnam. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	54
20	Neuro-genetic, neuro-imperialism and genetic programming models in predicting ultimate bearing capacity of pile. <i>Engineering With Computers</i> , 2020, 36, 1101-1115.	3.5	53
21	Evaluating and Predicting the Stability of Roadways in Tunnelling and Underground Space Using Artificial Neural Network-Based Particle Swarm Optimization. <i>Tunnelling and Underground Space Technology</i> , 2020, 103, 103517.	3.0	51
22	A new technique to predict fly-rock in bench blasting based on an ensemble of support vector regression and GLMNET. <i>Engineering With Computers</i> , 2021, 37, 421-435.	3.5	51
23	Predicting the sorption efficiency of heavy metal based on the biochar characteristics, metal sources, and environmental conditions using various novel hybrid machine learning models. <i>Chemosphere</i> , 2021, 276, 130204.	4.2	49
24	A Novel Hybrid Model for Predicting Blast-Induced Ground Vibration Based on k-Nearest Neighbors and Particle Swarm Optimization. <i>Scientific Reports</i> , 2019, 9, 13971.	1.6	48
25	Predicting rock size distribution in mine blasting using various novel soft computing models based on meta-heuristics and machine learning algorithms. <i>Geoscience Frontiers</i> , 2021, 12, 101108.	4.3	48
26	A Novel Hunger Games Search Optimization-Based Artificial Neural Network for Predicting Ground Vibration Intensity Induced by Mine Blasting. <i>Natural Resources Research</i> , 2021, 30, 3865-3880.	2.2	48
27	A comparison of advanced computational models and experimental techniques in predicting blast-induced ground vibration in open-pit coal mine. <i>Acta Geophysica</i> , 2019, 67, 1025-1037.	1.0	45
28	A novel artificial intelligence technique for analyzing slope stability using PSO-CA model. <i>Engineering With Computers</i> , 2021, 37, 533-544.	3.5	44
29	Shortest path synthesis for Dubins non-holonomic robot. , 0, , .		41
30	Optimizing Levenberg-Marquardt backpropagation technique in predicting factor of safety of slopes after two-dimensional OptumG2 analysis. <i>Engineering With Computers</i> , 2020, 36, 941-952.	3.5	39
31	Prediction of Blast-Induced Ground Vibration in Open-Pit Mines Using a New Technique Based on Imperialist Competitive Algorithm and M5Rules. <i>Natural Resources Research</i> , 2020, 29, 791-806.	2.2	39
32	Forecasting mining capital cost for open-pit mining projects based on artificial neural network approach. <i>Resources Policy</i> , 2021, 74, 101474.	4.2	36
33	Estimating PM10 Concentration from Drilling Operations in Open-Pit Mines Using an Assembly of SVR and PSO. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2806.	1.3	35
34	Soft computing models for predicting blast-induced air over-pressure: A novel artificial intelligence approach. <i>Applied Soft Computing Journal</i> , 2020, 92, 106292.	4.1	35
35	Predicting blast-induced peak particle velocity using BGAMs, ANN and SVM: a case study at the Nui Beo open-pit coal mine in Vietnam. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	34
36	Prediction of the sorption efficiency of heavy metal onto biochar using a robust combination of fuzzy C-means clustering and back-propagation neural network. <i>Journal of Environmental Management</i> , 2021, 293, 112808.	3.8	33

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37	Preparation of humidity-controlling porous ceramics from volcanic ash and waste glass. <i>Ceramics International</i> , 2011, 37, 2845-2853.	2.3	29
38	Toward a State-of-the-Art of Fly-Rock Prediction Technology in Open-Pit Mines Using EANNs Model. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4554.	1.3	29
39	A generalized artificial intelligence model for estimating the friction angle of clays in evaluating slope stability using a deep neural network and Harris Hawks optimization algorithm. <i>Engineering With Computers</i> , 2022, 38, 3901-3914.	3.5	29
40	Prediction of Blast-Induced Ground Vibration Intensity in Open-Pit Mines Using Unmanned Aerial Vehicle and a Novel Intelligence System. <i>Natural Resources Research</i> , 2020, 29, 771-790.	2.2	28
41	Proposing two novel hybrid intelligence models for forecasting copper price based on extreme learning machine and meta-heuristic algorithms. <i>Resources Policy</i> , 2021, 73, 102195.	4.2	28
42	A comparative study of empirical and ensemble machine learning algorithms in predicting air over-pressure in open-pit coal mine. <i>Acta Geophysica</i> , 2020, 68, 325-336.	1.0	28
43	Analysis and prediction of diaphragm wall deflection induced by deep braced excavations using finite element method and artificial neural network optimized by metaheuristic algorithms. <i>Reliability Engineering and System Safety</i> , 2022, 221, 108335.	5.1	28
44	A Novel Artificial Intelligence Technique to Estimate the Gross Calorific Value of Coal Based on Meta-Heuristic and Support Vector Regression Algorithms. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4868.	1.3	27
45	Predicting Ground Vibrations Due to Mine Blasting Using a Novel Artificial Neural Network-Based Cuckoo Search Optimization. <i>Natural Resources Research</i> , 2021, 30, 2663-2685.	2.2	26
46	Developing a predictive method based on optimized M5Rules+GA predicting heating load of an energy-efficient building system. <i>Engineering With Computers</i> , 2020, 36, 931-940.	3.5	25
47	Modeling of rock fragmentation by firefly optimization algorithm and boosted generalized additive model. <i>Neural Computing and Applications</i> , 2021, 33, 3503-3519.	3.2	25
48	Prediction of Rock Size Distribution in Mine Bench Blasting Using a Novel Ant Colony Optimization-Based Boosted Regression Tree Technique. <i>Natural Resources Research</i> , 2020, 29, 867-886.	2.2	24
49	Rapid Determination of Gross Calorific Value of Coal Using Artificial Neural Network and Particle Swarm Optimization. <i>Natural Resources Research</i> , 2021, 30, 621-638.	2.2	21
50	Prediction of gas yield generated by energy recovery from municipal solid waste using deep neural network and moth-flame optimization algorithm. <i>Journal of Cleaner Production</i> , 2021, 311, 127672.	4.6	21
51	A Comparative Study of Different Machine Learning Algorithms in Predicting the Content of Ilmenite in Titanium Placer. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 635.	1.3	21
52	Estimation of Ground Vibration Intensity Induced by Mine Blasting using a State-of-the-Art Hybrid Autoencoder Neural Network and Support Vector Regression Model. <i>Natural Resources Research</i> , 2021, 30, 3853-3864.	2.2	20
53	Forecasting monthly copper price: A comparative study of various machine learning-based methods. <i>Resources Policy</i> , 2021, 73, 102189.	4.2	20
54	Estimation of Blast-Induced Air Overpressure in Quarry Mines Using Cubist-Based Genetic Algorithm. <i>Natural Resources Research</i> , 2020, 29, 593-607.	2.2	19

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55	Composition and Morphology Characteristics of Magnetic Fractions of Coal Fly Ash Wastes Processed in High-Temperature Exposure in Thermal Power Plants. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1964.	1.3	17
56	Novel Extreme Learning Machine-Multi-Verse Optimization Model for Predicting Peak Particle Velocity Induced by Mine Blasting. <i>Natural Resources Research</i> , 2021, 30, 4735-4751.	2.2	16
57	A novel approach in adsorption of heavy metal ions from aqueous solution using synthesized MCM-41 from coal bottom ash. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, 100, 1226-1244.	1.8	15
58	Predicting Blast-Induced Ground Vibration in Open-Pit Mines Using Different Nature-Inspired Optimization Algorithms and Deep Neural Network. <i>Natural Resources Research</i> , 2021, 30, 4695-4717.	2.2	15
59	Predicting rock displacement in underground mines using improved machine learning-based models. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 188, 110552.	2.5	15
60	Toward state-of-the-art techniques in predicting and controlling slope stability in open-pit mines based on limit equilibrium analysis, radial basis function neural network, and brainstorm optimization. <i>Acta Geotechnica</i> , 2022, 17, 1295-1314.	2.9	14
61	Estimating Ore Production in Open-pit Mines Using Various Machine Learning Algorithms Based on a Truck-Haulage System and Support of Internet of Things. <i>Natural Resources Research</i> , 2021, 30, 1141-1173.	2.2	13
62	Effect of Key Parameters on Top Coal First Caving and Roof First Weighting in Longwall Top Coal Caving: A Case Study. <i>International Journal of Geomechanics</i> , 2020, 20, .	1.3	12
63	Prediction of ground vibration intensity in mine blasting using the novel hybrid MARS-PSO-MLP model. <i>Engineering With Computers</i> , 2022, 38, 4007-4025.	3.5	12
64	Predicting Blast-induced Ground Vibration in Quarries Using Adaptive Fuzzy Inference Neural Network and Moth-Flame Optimization. <i>Natural Resources Research</i> , 2021, 30, 4719-4734.	2.2	12
65	Estimating Air Over-pressure Resulting from Blasting in Quarries Based on a Novel Ensemble Model (GLMNETs-MLPNN). <i>Natural Resources Research</i> , 2021, 30, 2629-2646.	2.2	10
66	Optimization of haulage-truck system performance for ore production in open-pit mines using big data and machine learning-based methods. <i>Resources Policy</i> , 2022, 75, 102522.	4.2	10
67	Lightweight Unmanned Aerial Vehicle and Structure-from-Motion Photogrammetry for Generating Digital Surface Model for Open-Pit Coal Mine Area and Its Accuracy Assessment. , 2018, , 17-33.		8
68	Exploring the relation between production factors, ore grades, and life of mine for forecasting mining capital cost through a novel cascade forward neural network-based salp swarm optimization model. <i>Resources Policy</i> , 2021, 74, 102300.	4.2	8
69	Experimental Investigation on the Performance of DJI Phantom 4 RTK in the PPK Mode for 3D Mapping Open-Pit Mines. <i>Inzynieria Mineralna</i> , 2021, 1, .	0.2	7
70	A new model for water adsorption in porous ceramics. <i>Journal of Porous Materials</i> , 2013, 20, 129-136.	1.3	4
71	A Review of Artificial Intelligence Applications in Mining and Geological Engineering. <i>Lecture Notes in Civil Engineering</i> , 2021, , 109-142.	0.3	4
72	Land Subsidence Detection in Tan My-Thuong Tan Open Pit Mine and Surrounding Areas by Time Series of Sentinel-1 Images. <i>Inzynieria Mineralna</i> , 2021, 1, .	0.2	4

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73	3D Spatial Interpolation Methods for Open-Pit Mining Air Quality with Data Acquired by Small UAV Based Monitoring System. Inzynieria Mineralna, 2021, 1, .	0.2	3
74	Extra Trees Ensemble: A Machine Learning Model for Predicting Blast-Induced Ground Vibration Based on the Bagging and Sibling of Random Forest Algorithm. Lecture Notes in Civil Engineering, 2022, , 643-652.	0.3	3
75	A Real-Time Regulation Model in Multi-agent Decision Support System for Open Pit Mining. Lecture Notes in Production Engineering, 2015, , 255-262.	0.3	1
76	Assessment on maximum magnitude of natural and triggered earthquake when water is impounded in the mining pit: A case study in Nui Nho quarry, Vietnam based on gravity and magnetic data. Russian Journal of Earth Sciences, 2020, 20, 1-10.	0.2	1
77	Assessment of Global Digital Height Models over Quang Ninh Province, Vietnam. Lecture Notes in Civil Engineering, 2021, , 1-12.	0.3	1
78	Utilizing a Novel Artificial Neural Network-Based Meta-heuristic Algorithm to Predict the Dust Concentration in Deo Nai Open-Pit Coal Mine (Vietnam). Lecture Notes in Civil Engineering, 2021, , 203-223.	0.3	1
79	Research on Suitable Mining Technology for Placer Titanium Mines in Vietnam. Inzynieria Mineralna, 2021, 1, .	0.2	1
80	Prediction of ground subsidence due to underground mining through time using multilayer feed-forward artificial neural networks and back-propagation algorithm “ case study at Mong Duong underground coal mine (Vietnam). Mining Science and Technology(Russian Federation), 2021, 6, 241-251.	0.2	1
81	A Computational Tool for Time-Series Prediction of Mining-Induced Subsidence Based on Time-Effect Function and Geodetic Monitoring Data. , 2018, , 1-16.		0
82	APPROACH OF RECOVERING THIN COAL SEAMS. Mining Science and Technology(Russian Federation), 2018, , 16-20.	0.2	0
83	Evaluating the Air Flow and Gas Dispersion Behavior in a Deep Open-Pit Mine Based on Monitoring and CFD Analysis: A Case Study at the Coc Sau Open-Pit Coal Mine (Vietnam). Lecture Notes in Civil Engineering, 2021, , 224-244.	0.3	0
84	Study on the Reasonable Parameters of the Concentric Hemisphere-Style Shaped Charge for Destroying Rock. Lecture Notes in Civil Engineering, 2021, , 45-68.	0.3	0
85	Evaluating the Effect of Meteorological Conditions on Blast-Induced Air Over-Pressure in Open Pit Coal Mines. Lecture Notes in Civil Engineering, 2021, , 170-186.	0.3	0
86	Seismic Hazard Assessment for Thuong Tan-Tan My Quarries (Vietnam). Inzynieria Mineralna, 2021, 1, .	0.2	0
87	Development of a Blasting Vibration Monitoring System Based on Tri-axial Acceleration Sensor for Wireless Mesh Network Monitoring. Lecture Notes in Civil Engineering, 2021, , 187-202.	0.3	0