Xuan-Nam Bui

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83 papers	1,839 citations	26 h-index	40 g-index
92 ext. papers	2,479 ext. citations	4 avg, IF	6.26 L-index

#	Paper	IF	Citations
83	Analysis and prediction of diaphragm wall deflection induced by deep braced excavations using finite element method and artificial neural network optimized by metaheuristic algorithms. *Reliability Engineering and System Safety*, **2022**, 221, 108335	6.3	1
82	Predicting rock displacement in underground mines using improved machine learning-based models. *Measurement: Journal of the International Measurement Confederation*, **2022**, 188, 110552	4.6	3
81	Optimization of haulage-truck system performance for ore production in open-pit mines using big data and machine learning-based methods. *Resources Policy*, **2022**, 75, 102522	7.2	1
80	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	1
79	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	
77	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	
76	Assessment of Feasible and Effective Technologies for the Chemical Utilization of Domestic Coal for Value-Added Production in Vietnam. *Lecture Notes in Civil Engineering*, **2021**, 364-384	0.3	0
75	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	
74	A Review of Artificial Intelligence Applications in Mining and Geological Engineering. *Lecture Notes in Civil Engineering*, **2021**, 109-142	0.3	1
73	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	
72	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	
71	Experimental Investigation on the Performance of DJI Phantom 4 RTK in the PPK Mode for 3D Mapping Open-Pit Mines **2021**, 1,		3
70	Novel Extreme Learning Machine-Multi-Verse Optimization Model for Predicting Peak Particle Velocity Induced by Mine Blasting. *Natural Resources Research*, **2021**, 30, 4735	4.9	3
69	Predicting Blast-induced Ground Vibration in Quarries Using Adaptive Fuzzy Inference Neural Network and Moth-Flame Optimization. *Natural Resources Research*, **2021**, 30, 4719	4.9	3
68	Predicting rock size distribution in mine blasting using various novel soft computing models based on meta-heuristics and machine learning algorithms. *Geoscience Frontiers*, **2021**, 12, 101108	6	17
67	Estimation of Ground Vibration Intensity Induced by Mine Blasting using a State-of-the-Art Hybrid Autoencoder Neural Network and Support Vector Regression Model. *Natural Resources Research*, **2021**, 30, 3853-3864	4.9	5

66	A Novel Hunger Games Search Optimization-Based Artificial Neural Network for Predicting Ground Vibration Intensity Induced by Mine Blasting. *Natural Resources Research*, **2021**, 30, 3865-3880	4.9	15
65	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. *Natural Resources Research*, **2021**, 30, 191-207	4.9	36
64	Rapid Determination of Gross Calorific Value of Coal Using Artificial Neural Network and Particle Swarm Optimization. *Natural Resources Research*, **2021**, 30, 621-638	4.9	11
63	Modeling of rock fragmentation by firefly optimization algorithm and boosted generalized additive model. *Neural Computing and Applications*, **2021**, 33, 3503-3519	4.8	15
62	Estimating Ore Production in Open-pit Mines Using Various Machine Learning Algorithms Based on a Truck-Haulage System and Support of Internet of Things. *Natural Resources Research*, **2021**, 30, 1141-1173	4.9	3
61	A new technique to predict fly-rock in bench blasting based on an ensemble of support vector regression and GLMNET. *Engineering With Computers*, **2021**, 37, 421-435	4.5	38
60	A novel artificial intelligence technique for analyzing slope stability using PSO-CA model. *Engineering With Computers*, **2021**, 37, 533-544	4.5	20
59	Predicting Ground Vibrations Due to Mine Blasting Using a Novel Artificial Neural Network-Based Cuckoo Search Optimization. *Natural Resources Research*, **2021**, 30, 2663-2685	4.9	11
58	Estimating Air Over-pressure Resulting from Blasting in Quarries Based on a Novel Ensemble Model (GLMNETsMLPNN). *Natural Resources Research*, **2021**, 30, 2629-2646	4.9	4
57	Prediction of gas yield generated by energy recovery from municipal solid waste using deep neural network and moth-flame optimization algorithm. *Journal of Cleaner Production*, **2021**, 311, 127672	10.3	7
56	Predicting the sorption efficiency of heavy metal based on the biochar characteristics, metal sources, and environmental conditions using various novel hybrid machine learning models. *Chemosphere*, **2021**, 276, 130204	8.4	13
55	Prediction of the sorption efficiency of heavy metal onto biochar using a robust combination of fuzzy C-means clustering and back-propagation neural network. *Journal of Environmental Management*, **2021**, 293, 112808	7.9	11
54	Predicting roof displacement of roadways in underground coal mines using adaptive neuro-fuzzy inference system optimized by various physics-based optimization algorithms. *Journal of Rock Mechanics and Geotechnical Engineering*, **2021**,	5.3	12
53	Forecasting monthly copper price: A comparative study of various machine learning-based methods. *Resources Policy*, **2021**, 73, 102189	7.2	7
52	Proposing two novel hybrid intelligence models for forecasting copper price based on extreme learning machine and meta-heuristic algorithms. *Resources Policy*, **2021**, 73, 102195	7.2	9
51	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. *Resources Policy*, **2021**, 74, 102300	7.2	2
50	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
49	Prediction of slope failure in open-pit mines using a novel hybrid artificial intelligence model based on decision tree and evolution algorithm. *Scientific Reports*, **2020**, 10, 9939	4.9	47

48	Effect of Key Parameters on Top Coal First Caving and Roof First Weighting in Longwall Top Coal Caving: A Case Study. *International Journal of Geomechanics*, **2020**, 20, 04020037	3.1	6
47	A novel artificial intelligence technique to predict compressive strength of recycled aggregate concrete using ICA-XGBoost model. *Engineering With Computers*, **2020**, 37, 3329	4.5	61
46	Soft computing models for predicting blast-induced air over-pressure: A novel artificial intelligence approach. *Applied Soft Computing Journal*, **2020**, 92, 106292	7.5	22
45	A Comparative Study of Different Machine Learning Algorithms in Predicting the Content of Ilmenite in Titanium Placer. *Applied Sciences (Switzerland)*, **2020**, 10, 635	2.6	10
44	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	0.9	1
43	A comparative study of empirical and ensemble machine learning algorithms in predicting air over-pressure in open-pit coal mine. *Acta Geophysica*, **2020**, 68, 325-336	2.2	16
42	Developing a novel artificial intelligence model to estimate the capital cost of mining projects using deep neural network-based ant colony optimization algorithm. *Resources Policy*, **2020**, 66, 101604	7.2	33
41	Prediction of Blast-Induced Ground Vibration in Open-Pit Mines Using a New Technique Based on Imperialist Competitive Algorithm and M5Rules. *Natural Resources Research*, **2020**, 29, 791-806	4.9	28
40	Prediction of Blast-Induced Ground Vibration Intensity in Open-Pit Mines Using Unmanned Aerial Vehicle and a Novel Intelligence System. *Natural Resources Research*, **2020**, 29, 771-790	4.9	18
39	Estimation of Blast-Induced Air Overpressure in Quarry Mines Using Cubist-Based Genetic Algorithm. *Natural Resources Research*, **2020**, 29, 593-607	4.9	12
38	Prediction of Rock Size Distribution in Mine Bench Blasting Using a Novel Ant Colony Optimization-Based Boosted Regression Tree Technique. *Natural Resources Research*, **2020**, 29, 867-886	4.9	16
37	Evaluating and Predicting the Stability of Roadways in Tunnelling and Underground Space Using Artificial Neural Network-Based Particle Swarm Optimization. *Tunnelling and Underground Space Technology*, **2020**, 103, 103517	5.7	27
36	A comparative study of artificial neural networks in predicting blast-induced air-blast overpressure at Deo Nai open-pit coal mine, Vietnam. *Neural Computing and Applications*, **2020**, 32, 3939-3955	4.8	80
35	Prediction of Blast-Induced Ground Vibration in an Open-Pit Mine by a Novel Hybrid Model Based on Clustering and Artificial Neural Network. *Natural Resources Research*, **2020**, 29, 691-709	4.9	110
34	Prediction of Blast-induced Air Over-pressure in Open-Pit Mine: Assessment of Different Artificial Intelligence Techniques. *Natural Resources Research*, **2020**, 29, 571-591	4.9	76
33	A Novel Artificial Intelligence Approach to Predict Blast-Induced Ground Vibration in Open-Pit Mines Based on the Firefly Algorithm and Artificial Neural Network. *Natural Resources Research*, **2020**, 29, 723-737	4.9	62
32	Optimizing LevenbergMarquardt backpropagation technique in predicting factor of safety of slopes after two-dimensional OptumG2 analysis. *Engineering With Computers*, **2020**, 36, 941-952	4.5	24
31	Neuro-genetic, neuro-imperialism and genetic programing models in predicting ultimate bearing capacity of pile. *Engineering With Computers*, **2020**, 36, 1101-1115	4.5	31

30	Novel Soft Computing Model for Predicting Blast-Induced Ground Vibration in Open-Pit Mines Based on Particle Swarm Optimization and XGBoost. *Natural Resources Research*, **2020**, 29, 711-721	4.9	74
29	Prediction of ultimate bearing capacity through various novel evolutionary and neural network models. *Engineering With Computers*, **2020**, 36, 671-687	4.5	42
28	Developing a predictive method based on optimized M5RulesGA predicting heating load of an energy-efficient building system. *Engineering With Computers*, **2020**, 36, 931-940	4.5	17
27	A novel approach in adsorption of heavy metal ions from aqueous solution using synthesized MCM-41 from coal bottom ash. *International Journal of Environmental Analytical Chemistry*, **2020**, 100, 1226-1244	1.8	8
26	Computational Intelligence Model for Estimating Intensity of Blast-Induced Ground Vibration in a Mine Based on Imperialist Competitive and Extreme Gradient Boosting Algorithms. *Natural Resources Research*, **2020**, 29, 751-769	4.9	38
25	Forecasting mining capital cost for open-pit mining projects based on artificial neural network approach. *Resources Policy*, **2019**, 74, 101474	7.2	23
24	A Novel Hybrid Model for Predicting Blast-Induced Ground Vibration Based on k-Nearest Neighbors and Particle Swarm Optimization. *Scientific Reports*, **2019**, 9, 13971	4.9	27
23	A new soft computing model for estimating and controlling blast-produced ground vibration based on Hierarchical K-means clustering and Cubist algorithms. *Applied Soft Computing Journal*, **2019**, 77, 376-386	7.5	82
22	A comparison of advanced computational models and experimental techniques in predicting blast-induced ground vibration in open-pit coal mine. *Acta Geophysica*, **2019**, 67, 1025-1037	2.2	37
21	Composition and Morphology Characteristics of Magnetic Fractions of Coal Fly Ash Wastes Processed in High-Temperature Exposure in Thermal Power Plants. *Applied Sciences (Switzerland)*, **2019**, 9, 1964	2.6	13
20	Developing an XGBoost model to predict blast-induced peak particle velocity in an open-pit mine: a case study. *Acta Geophysica*, **2019**, 67, 477-490	2.2	69
19	Estimating PM10 Concentration from Drilling Operations in Open-Pit Mines Using an Assembly of SVR and PSO. *Applied Sciences (Switzerland)*, **2019**, 9, 2806	2.6	27
18	Predicting blast-induced peak particle velocity using BGAMs, ANN and SVM: a case study at the Nui Beo open-pit coal mine in Vietnam. *Environmental Earth Sciences*, **2019**, 78, 1	2.9	26
17	Predicting Blast-Induced Ground Vibration in Open-Pit Mines Using Vibration Sensors and Support Vector Regression-Based Optimization Algorithms. *Sensors*, **2019**, 20,	3.8	35
16	A Novel Artificial Intelligence Technique to Estimate the Gross Calorific Value of Coal Based on Meta-Heuristic and Support Vector Regression Algorithms. *Applied Sciences (Switzerland)*, **2019**, 9, 4868	2.6	15
15	Toward a State-of-the-Art of Fly-Rock Prediction Technology in Open-Pit Mines Using EANNs Model. *Applied Sciences (Switzerland)*, **2019**, 9, 4554	2.6	17
14	Evaluating and predicting blast-induced ground vibration in open-cast mine using ANN: a case study in Vietnam. *SN Applied Sciences*, **2019**, 1, 1	1.8	47
13	Predicting Blast-Induced Air Overpressure: A Robust Artificial Intelligence System Based on Artificial Neural Networks and Random Forest. *Natural Resources Research*, **2019**, 28, 893-907	4.9	109

12	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		4
11	A Computational Tool for Time-Series Prediction of Mining-Induced Subsidence Based on Time-Effect Function and Geodetic Monitoring Data **2018**, 1-16		
10	A Real-Time Regulation Model in Multi-agent Decision Support System for Open Pit Mining. *Lecture Notes in Production Engineering*, **2015**, 255-262	0	1
9	A new model for water adsorption in porous ceramics. *Journal of Porous Materials*, **2013**, 20, 129-136	2.4	2
8	Humidity control materials prepared from diatomite and volcanic ash. *Construction and Building Materials*, **2013**, 38, 1066-1072	6.7	65
7	Glass-ceramic from mixtures of bottom ash and fly ash. *Waste Management*, **2012**, 32, 2306-14	8.6	62
6	Preparation of humidity-controlling porous ceramics from volcanic ash and waste glass. *Ceramics International*, **2011**, 37, 2845-2853	5.1	26
5			18
4	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. *Acta Geotechnica*,1	4.9	0
3	Prediction of ground vibration intensity in mine blasting using the novel hybrid MARS-PSO-MLP model. *Engineering With Computers*,1	4.5	1
2	Predicting Blast-Induced Ground Vibration in Open-Pit Mines Using Different Nature-Inspired Optimization Algorithms and Deep Neural Network. *Natural Resources Research*,1	4.9	2
1	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. *Engineering With Computers*,1	4.5	15