

CITATION REPORT

List of articles citing

A comparative study on the application of various artificial neural networks to simultaneous prediction of rock fragmentation and backbreak

DOI: 10.1016/j.jrmge.2013.05.007

Journal of Rock Mechanics and Geotechnical Engineering, 2013, 5, 318-324.

Source: <https://exaly.com/paper-pdf/56050452/citation-report.pdf>

Version: 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
83	Application of fuzzy inference system for prediction of rock fragmentation induced by blasting. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 10819-10832	1.8	63
82	Risk assessment and prediction of rock fragmentation produced by blasting operation: a rock engineering system. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	58
81	Prediction and optimization of back-break and rock fragmentation using an artificial neural network and a bee colony algorithm. <i>Bulletin of Engineering Geology and the Environment</i> , 2016 , 75, 27-34	4	114
80	Assessment of backbreak due to blasting operation in open pit mines: a case study. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	11
79	An Optimized Artificial Neural Network Structure to Predict Clay Sensitivity in a High Landslide Prone Area Using Piezocone Penetration Test (CPTu) Data: A Case Study in Southwest of Sweden. <i>Geotechnical and Geological Engineering</i> , 2016 , 34, 745-758	1.5	31
78	Combination of neural network and ant colony optimization algorithms for prediction and optimization of flyrock and back-break induced by blasting. <i>Engineering With Computers</i> , 2016 , 32, 255-266	4.5	78
77	Assessment of the Effect of Blast Hole Diameter on the Number of Oversize Boulders Using ANN Model. <i>Journal of the Institution of Engineers (India): Series D</i> , 2016 , 97, 21-31	0.9	3
76	Genetic programming and non-linear multiple regression techniques to predict backbreak in blasting operation. <i>Engineering With Computers</i> , 2016 , 32, 123-133	4.5	60
75	Particle swarm optimization approach for forecasting backbreak induced by bench blasting. <i>Neural Computing and Applications</i> , 2017 , 28, 1855-1862	4.8	24
74	Multivariate analysis of fracture toughness, brittleness and blasting geometric ratios for the prediction of fragmentation output. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017 , 93, 324-329	6	6
73	Modelling the Shear Behaviour of Clean Rock Discontinuities Using Artificial Neural Networks. <i>Rock Mechanics and Rock Engineering</i> , 2017 , 50, 1817-1831	5.7	9
72	Deformation evaluation on surrounding rocks of underground caverns based on PSO-LSSVM. <i>Tunnelling and Underground Space Technology</i> , 2017 , 69, 171-181	5.7	21
71	Developing a new hybrid-AI model to predict blast-induced backbreak. <i>Engineering With Computers</i> , 2017 , 33, 349-359	4.5	37
70	Inventory forecasting model using genetic programming and Holt-Winter's exponential smoothing method. 2017 ,		4
69	Minimising Backbreak at the Dewan Cement Limestone Quarry Using an Artificial Neural Network. <i>Archives of Mining Sciences</i> , 2017 , 62, 795-806		
68	Feasibility of particle swarm optimization and multiple regression for the prediction of an environmental issue of mine blasting. <i>Engineering Computations</i> , 2018 , 35, 363-376	1.4	9
67	Development of overbreak prediction models in drill and blast tunneling using soft computing methods. <i>Engineering With Computers</i> , 2018 , 34, 45-58	4.5	20

66	Optimization of flyrock and rock fragmentation in the Tajareh limestone mine using metaheuristics method of firefly algorithm. <i>Engineering With Computers</i> , 2018 , 34, 241-251	4.5	44
65	Random Forest Tree Based Approach for Blast Design in Surface Mine. <i>Geotechnical and Geological Engineering</i> , 2018 , 36, 1647-1664	1.5	0
64	Development of imperialist competitive algorithm in predicting the particle size distribution after mine blasting. <i>Engineering With Computers</i> , 2018 , 34, 329-338	4.5	11
63	Overbreak prediction in underground excavations using hybrid ANFIS-PSO model. <i>Tunnelling and Underground Space Technology</i> , 2018 , 80, 1-9	5.7	27
62	Developing artificial neural network models to predict allowable bearing capacity and elastic settlement of shallow foundation in Sharjah, United Arab Emirates. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	7
61	Prediction of Ultimate Axial Capacity of Square Concrete-Filled Steel Tubular Short Columns Using a Hybrid Intelligent Algorithm. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2802	2.6	22
60	A fresh view on particle swarm optimization to develop a precise model for predicting rock fragmentation. <i>Engineering Computations</i> , 2019 , 36, 533-550	1.4	6
59	Modified scaled distance regression analysis approach for prediction of blast-induced ground vibration in multi-hole blasting. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2019 , 11, 202-207	5.3	26
58	Predictive modeling and multiobjective optimization of diamond turning process of single-crystal silicon using RSM and desirability function approach. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 103, 4205-4220	3.2	11
57	Specific draft estimation model for offset disc harrows. <i>Soil and Tillage Research</i> , 2019 , 191, 75-84	6.5	9
56	New approach to evaluate the equivalent circulating density (ECD) using artificial intelligence techniques. <i>Journal of Petroleum Exploration and Production</i> , 2019 , 9, 1569-1578	2.2	19
55	Developing a new uncertain rule-based fuzzy approach for evaluating the blast-induced backbreak. <i>Engineering With Computers</i> , 2020 , 37, 1879	4.5	28
54	Reduction of blast-induced ground vibration and utilization of explosive energy using low-density explosives for environmentally sensitive areas. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	3
53	Design of a Predictive Model of Rock Breakage by Blasting Using Artificial Neural Networks. <i>Symmetry</i> , 2020 , 12, 1405	2.7	5
52	Seepage Analysis in Short Embankments Using Developing a Metaheuristic Method Based on Governing Equations. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1761	2.6	19
51	A new auto-tuning model for predicting the rock fragmentation: a cat swarm optimization algorithm. <i>Engineering With Computers</i> , 2020 , 1	4.5	22
50	Blast-Induced Rock Fragmentation in Wet Holes. <i>Mining, Metallurgy and Exploration</i> , 2020 , 37, 743-752	1.1	
49	Artificial intelligence, machine learning and process automation: existing knowledge frontier and way forward for mining sector. <i>Artificial Intelligence Review</i> , 2020 , 53, 6025-6042	9.7	21

48	A New Model for Predicting Rate of Penetration Using an Artificial Neural Network. <i>Sensors</i> , 2020 , 20,	3.8	5
47	Predicting TBM penetration rate in hard rock condition: A comparative study among six XGB-based metaheuristic techniques. <i>Geoscience Frontiers</i> , 2021 , 12, 101091	6	77
46	Green blasting policy: Simultaneous forecast of vertical and horizontal distribution of dust emissions using artificial causality-weighted neural network. <i>Journal of Cleaner Production</i> , 2021 , 283, 124562	10.3	13
45	Application of artificial intelligence to rock mechanics: An overview. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021 , 13, 248-266	5.3	31
44	35 Years of (AI) in Geotechnical Engineering: State of the Art. <i>Geotechnical and Geological Engineering</i> , 2021 , 39, 637-690	1.5	14
43	Optimization of postblast ore boundary determination using a novel sine cosine algorithm-based random forest technique and Monte Carlo simulation. <i>Engineering Optimization</i> , 2021 , 53, 1467-1482	2	10
42	Evaluation of the use of sublevel open stoping in the mining of moderately dipping medium-thick orebodies. <i>International Journal of Mining Science and Technology</i> , 2021 , 31, 333-346	7.1	5
41	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	6	17
40	Measuring blast fragmentation at Nui Phao open-pit mine, Vietnam using the Mask R-CNN deep learning model. <i>Mining Technology: Transactions of the Institute of Mining and Metallurgy</i> , 1-12	1.1	2
39	Advances in Blast-Induced Impact Prediction—A Review of Machine Learning Applications. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 601	2.4	9
38	Prediction of Dust Emission Due to Open Pit Mine Blasting Using a Hybrid Artificial Neural Network. <i>Natural Resources Research</i> , 2021 , 30, 4773	4.9	5
37	Frequency channeling: a concept to increase the frequency and control the PPV of blast-induced ground vibration waves in multi-hole blast in a surface mine. <i>Bulletin of Engineering Geology and the Environment</i> , 2021 , 80, 8009	4	1
36	Multivariate regression and genetic programming for prediction of backbreak in open-pit blasting. <i>Neural Computing and Applications</i> , 1	4.8	1
35	Intelligence Prediction of Some Selected Environmental Issues of Blasting: A Review. <i>Open Construction and Building Technology Journal</i> , 2020 , 14, 298-308	1.1	17
34	A Review of Soft Computing Methods Application in Rock Mechanic Engineering. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2016 , 1-70	0.3	3
33	Application of various robust techniques to study and evaluate the role of effective parameters on rock fragmentation. <i>Engineering With Computers</i> , 1	4.5	1
32	Real-Time Solution for Down Hole Torque Estimation and Drilling Optimization in High Deviated Wells Using Artificial Intelligence. 2021 ,		0
31	A Review of Soft Computing Methods Application in Rock Mechanic Engineering. 2016 , 606-673		

30	Risk assessment of blasting operations in open pit mines using FAHP method. <i>Mining of Mineral Deposits</i> , 2019 , 13, 76-86	1.7	2
29	Prediction of blasting mean fragment size using support vector regression combined with five optimization algorithms. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021 , 13, 1380-1380	5.3	12
28	Optimized Support Vector Machines Combined with Evolutionary Random Forest for Prediction of Back-Break Caused by Blasting Operation. <i>Sustainability</i> , 2021 , 13, 12797	3.6	4
27	Application of Artificial Neural Network (ANN) for Prediction and Optimization of Blast-Induced Impacts. <i>Mining</i> , 2021 , 1, 315-334		6
26	Applications of AI and ML Techniques to Predict Backbreak and Flyrock Distance Resulting from Blasting. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2021 , 41-59	0.4	0
25	RIPPER PRODUCTION PREDICTION FOR LATERITE EXCAVATION IN IRON ORE MINES. <i>Journal of Mining Science</i> , 2021 , 57, 66-75	0.8	
24	PREDICTION OF BOULDER COUNT IN LIMESTONE QUARRY BLASTING: STATISTICAL MODELING APPROACH. <i>Journal of Mining Science</i> , 2020 , 56, 771-783	0.8	1
23	Review of Empirical and Intelligent Techniques for Evaluating Rock Fragmentation Induced by Blasting. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2021 , 21-39	0.4	0
22	Development of soft computing based mathematical models for predicting mean fragment size coupled with their Monte Carlo simulation estimations. <i>Arabian Journal of Geosciences</i> , 2022 , 15, 1	1.8	
21	Predicting blast-induced pull using regression tree. <i>Arabian Journal of Geosciences</i> , 2022 , 15, 1	1.8	
20	A hybrid metaheuristic approach using random forest and particle swarm optimization to study and evaluate backbreak in open-pit blasting. <i>Neural Computing and Applications</i> , 2022 , 34, 6273	4.8	6
19	Advanced Analytics for Rock Blasting and Explosives Engineering in Mining. 2022 , 363-477		
18	Advanced Analytics for Rock Fragmentation. 2022 , 345-362		
17	Predicting the availability of continuous mining systems using LSTM neural network. <i>Advances in Mechanical Engineering</i> , 2022 , 14, 168781322210815	1.2	1
16	Application of artificial intelligence in geotechnical engineering: A state-of-the-art review. <i>Earth-Science Reviews</i> , 2022 , 228, 103991	10.2	9
15	Estimation of Blast-Induced Peak Particle Velocity through the Improved Weighted Random Forest Technique. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 5019	2.6	0
14	XG Boost Algorithm to Simultaneous Prediction of Rock Fragmentation and Induced Ground Vibration Using Unique Blast Data. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 5269	2.6	1
13	Six Novel Hybrid Extreme Learning Machine Swarm Intelligence Optimization (ELMBIO) Models for Predicting Backbreak in Open-Pit Blasting. <i>Natural Resources Research</i> ,	4.9	4

- | | | |
|----|--|---|
| 12 | Prediction of backbreak in hot strata/fiery seam of open-pit coal mine by decision tree and random forest algorithm. 2022 , 15, | ○ |
| 11 | Application of Soft Computing Technique based on ANN Model Prediction in Diverse Area of Mining Blasting Operations. 2022 , | ○ |
| 10 | Laboratory Investigations on Cutting Torque and Efficiency for Topping of Onion Leaves Using Wire-Type Rotary Unit. | ○ |
| 9 | Machine Learning Method to Predict Efficiency of Cavitation Water Jet Broken Solid Propellant. | ○ |
| 8 | Mine-to-crusher policy: Planning of mine blasting patterns for environmentally friendly and optimum fragmentation using Monte Carlo simulation-based multi-objective grey wolf optimization approach. 2022 , 103087 | ○ |
| 7 | An uncertainty hybrid model for risk assessment and prediction of blast-induced rock mass fragmentation. 2022 , 160, 105250 | ○ |
| 6 | Discussion on [Impact of orientation of blast initiation on ground vibrations][J Rock Mech Geotech Eng 15 (2022) ***[**]]. 2022 , | ○ |
| 5 | Predicting triaxial compressive strength of high-temperature treated rock using machine learning techniques. 2022 , | ○ |
| 4 | Back analysis of geomechanical parameters for rock mass under complex geological conditions using a novel algorithm. 2023 , 136, 105099 | ○ |
| 3 | Review of machine learning application in mine blasting. 2023 , 16, | ○ |
| 2 | Modelling erosive wear of nano-filler added carbon fibre reinforced polymer composite by artificial neural networks. 2023 , | ○ |
| 1 | A novel ensemble machine learning model to predict mine blasting-induced rock fragmentation. 2023 , 82, | ○ |