

Edy Tonnizam Mohamad

List of Publications by Citations

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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.

55
papers

2,702
citations

30
h-index

51
g-index

57
ext. papers

3,268
ext. citations

3.5
avg. IF

5.86
L-index

#	Paper	IF	Citations
55	Development of hybrid intelligent models for predicting TBM penetration rate in hard rock condition. <i>Tunnelling and Underground Space Technology</i> , 2017 , 63, 29-43	5.7	211
54	Ground vibration prediction in quarry blasting through an artificial neural network optimized by imperialist competitive algorithm. <i>Bulletin of Engineering Geology and the Environment</i> , 2015 , 74, 873-884	4	170
53	Blast-induced air and ground vibration prediction: a particle swarm optimization-based artificial neural network approach. <i>Environmental Earth Sciences</i> , 2015 , 74, 2799-2817	2.9	129
52	Improvement of Problematic Soils with Biopolymer An Environmentally Friendly Soil Stabilizer. <i>Journal of Materials in Civil Engineering</i> , 2017 , 29, 04016204	3	125
51	Prediction of the unconfined compressive strength of soft rocks: a PSO-based ANN approach. <i>Bulletin of Engineering Geology and the Environment</i> , 2015 , 74, 745-757	4	122
50	An adaptive neuro-fuzzy inference system for predicting unconfined compressive strength and Young's modulus: a study on Main Range granite. <i>Bulletin of Engineering Geology and the Environment</i> , 2015 , 74, 1301-1319	4	116
49	Three hybrid intelligent models in estimating flyrock distance resulting from blasting. <i>Engineering With Computers</i> , 2019 , 35, 243-256	4.5	108
48	A combination of the ICA-ANN model to predict air-overpressure resulting from blasting. <i>Engineering With Computers</i> , 2016 , 32, 155-171	4.5	98
47	Indirect measure of shale shear strength parameters by means of rock index tests through an optimized artificial neural network. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014 , 55, 487-498	4.6	98
46	Prediction of the strength and elasticity modulus of granite through an expert artificial neural network. <i>Arabian Journal of Geosciences</i> , 2016 , 9, 1	1.8	90
45	Feasibility of ICA in approximating ground vibration resulting from mine blasting. <i>Neural Computing and Applications</i> , 2018 , 29, 457-465	4.8	86
44	Application of two intelligent systems in predicting environmental impacts of quarry blasting. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 9647-9665	1.8	85
43	Predicting tunnel boring machine performance through a new model based on the group method of data handling. <i>Bulletin of Engineering Geology and the Environment</i> , 2019 , 78, 3799-3813	4	82
42	Neuro-fuzzy technique to predict air-overpressure induced by blasting. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 10937-10950	1.8	81
41	A novel approach for blast-induced flyrock prediction based on imperialist competitive algorithm and artificial neural network. <i>Scientific World Journal, The</i> , 2014 , 2014, 643715	2.2	81
40	Application of several non-linear prediction tools for estimating uniaxial compressive strength of granitic rocks and comparison of their performances. <i>Engineering With Computers</i> , 2016 , 32, 189-206	4.5	72
39	Application of deep neural networks in predicting the penetration rate of tunnel boring machines. <i>Bulletin of Engineering Geology and the Environment</i> , 2019 , 78, 6347-6360	4	64

38	An optimized ANN model based on genetic algorithm for predicting ripping production. <i>Neural Computing and Applications</i> , 2017 , 28, 393-406	4.8	63
37	Genetic programming and gene expression programming for flyrock assessment due to mine blasting. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016 , 88, 254-264	6	62
36	A combination of artificial bee colony and neural network for approximating the safety factor of retaining walls. <i>Engineering With Computers</i> , 2019 , 35, 647-658	4.5	58
35	Estimation of air-overpressure produced by blasting operation through a neuro-genetic technique. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	51
34	Estimation of the TBM advance rate under hard rock conditions using XGBoost and Bayesian optimization. <i>Underground Space (China)</i> , 2020 , 6, 506-506	3.7	50
33	Estimating and optimizing safety factors of retaining wall through neural network and bee colony techniques. <i>Engineering With Computers</i> , 2019 , 35, 945-954	4.5	48
32	Rock strength assessment based on regression tree technique. <i>Engineering With Computers</i> , 2016 , 32, 343-354	4.5	45
31	The use of new intelligent techniques in designing retaining walls. <i>Engineering With Computers</i> , 2020 , 36, 283-294	4.5	45
30	Overbreak prediction and optimization in tunnel using neural network and bee colony techniques. <i>Engineering With Computers</i> , 2019 , 35, 1191-1202	4.5	44
29	Prediction of blast-induced air overpressure: a hybrid AI-based predictive model. <i>Environmental Monitoring and Assessment</i> , 2015 , 187, 666	3.1	42
28	A Novel Intelligent ELM-BBO Technique for Predicting Distance of Mine Blasting-Induced Flyrock. <i>Natural Resources Research</i> , 2020 , 29, 4103-4120	4.9	38
27	Prediction and minimization of blast-induced flyrock using gene expression programming and firefly algorithm. <i>Neural Computing and Applications</i> , 2018 , 29, 269-281	4.8	38
26	A new hybrid method for predicting ripping production in different weathering zones through in situ tests. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 147, 106826	4.6	32
25	Estimating the friction angle of black shale core specimens with hybrid-ANN approaches. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 145, 744-755	4.6	30
24	The effects of particle swarm optimisation and genetic algorithm on ANN results in predicting pile bearing capacity. <i>International Journal of Hydromechatronics</i> , 2020 , 3, 69	4.2	26
23	Optimal ELM Harris Hawks Optimization and ELM Grasshopper Optimization Models to Forecast Peak Particle Velocity Resulting from Mine Blasting. <i>Natural Resources Research</i> , 2021 , 30, 2647-2662	4.9	20
22	Development of fuzzy-GMDH model optimized by GSA to predict rock tensile strength based on experimental datasets. <i>Neural Computing and Applications</i> , 2020 , 32, 14047-14067	4.8	19
21	The effects of ABC, ICA, and PSO optimization techniques on prediction of ripping production. <i>Engineering With Computers</i> , 2020 , 36, 1355-1370	4.5	19

20	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
19	Prediction of TBM performance in fresh through weathered granite using empirical and statistical approaches. <i>Tunnelling and Underground Space Technology</i> , 2021 , 118, 104183	5.7	17
18	Application of Tree-Based Predictive Models to Forecast Air Overpressure Induced by Mine Blasting. <i>Natural Resources Research</i> , 2021 , 30, 1865-1887	4.9	15
17	Proposing several hybrid PSO-extreme learning machine techniques to predict TBM performance. <i>Engineering With Computers</i> ,1	4.5	14
16	Strength evaluation of granite block samples with different predictive models. <i>Engineering With Computers</i> , 2021 , 37, 891-908	4.5	12
15	Ripping Production Prediction in Different Weathering Zones According to Field Data. <i>Geotechnical and Geological Engineering</i> , 2017 , 35, 2381-2399	1.5	11
14	Effect of Geological Structure on Flyrock Prediction in Construction Blasting. <i>Geotechnical and Geological Engineering</i> , 2018 , 36, 2217-2235	1.5	11
13	A typical weathering profile of granitic rock in Johor, Malaysia based on joint characterization. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 2191-2201	1.8	10
12	Effects of moisture content on the strength of tropically weathered granite from Malaysia. <i>Bulletin of Engineering Geology and the Environment</i> , 2016 , 75, 369-390	4	9
11	Utilizing regression models to find functions for determining ripping production based on laboratory tests. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017 , 111, 216-225	4.6	9
10	EFFECT OF GEOLOGICAL STRUCTURE AND BLASTING PRACTICE IN FLY ROCK ACCIDENT AT JOHOR, MALAYSIA. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016 , 78,	1.2	7
9	Prediction of rock interlocking by developing two hybrid models based on GA and fuzzy system. <i>Engineering With Computers</i> , 2019 , 35, 1419-1430	4.5	7
8	An excavatability classification system for surface excavation in sedimentary rocks. <i>Bulletin of Engineering Geology and the Environment</i> , 2017 , 76, 241-251	4	5
7	Machine Learning Classifiers for Modeling Soil Characteristics by Geophysics Investigations: A Comparative Study. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5734	2.6	4
6	Rock Mass Classification for the Assessment of Blastability in Tropically Weathered Limestones. <i>Lecture Notes in Civil Engineering</i> , 2021 , 13-44	0.3	3
5	Performance evaluation of existing surface excavation assessment methods on weathered sedimentary rock. <i>Bulletin of Engineering Geology and the Environment</i> , 2017 , 76, 205-218	4	2
4	Rock mass classification for the assessment of blastability in tropically weathered igneous rocks 2022 , 255-283		
3	GEOSPATIAL APPROACH FOR GEOLOGICAL INVESTIGATION AT DISTRICT OF MERSING. <i>Journal of Information System and Technology Management</i> , 2021 , 6, 174-185	0.1	

- 2 Recent Developments in Machine Learning and Flyrock Prediction. *Lecture Notes in Civil Engineering*, **2022**, 597-612 0.3
- 1 Excavation Assessment on Granitic Area at Ulu Kinta, Perak, Malaysia for an Earthwork Project. *Lecture Notes in Civil Engineering*, **2022**, 521-536 0.3