

Mohsen Hajihassani

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,959
citations

236912

25
h-index

276858

41
g-index

45
all docs

45
docs citations

45
times ranked

1565
citing authors

#	ARTICLE	IF	CITATIONS
1	Blasting-induced flyrock and ground vibration prediction through an expert artificial neural network based on particle swarm optimization. <i>Arabian Journal of Geosciences</i> , 2014, 7, 5383-5396.	1.3	305
2	Prediction of uniaxial compressive strength of rock samples using hybrid particle swarm optimization-based artificial neural networks. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 60, 50-63.	5.0	271
3	Prediction of seismic slope stability through combination of particle swarm optimization and neural network. <i>Engineering With Computers</i> , 2016, 32, 85-97.	6.1	256
4	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, 873-886.	3.5	209
5	Prediction of airblast-overpressure induced by blasting using a hybrid artificial neural network and particle swarm optimization. <i>Applied Acoustics</i> , 2014, 80, 57-67.	3.3	171
6	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.	2.7	162
7	Applications of Particle Swarm Optimization in Geotechnical Engineering: A Comprehensive Review. <i>Geotechnical and Geological Engineering</i> , 2018, 36, 705-722.	1.7	128
8	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.	5.0	115
9	Evaluation and prediction of flyrock resulting from blasting operations using empirical and computational methods. <i>Engineering With Computers</i> , 2016, 32, 109-121.	6.1	109
10	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, 1-11.	2.1	106
11	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.	6.1	104
12	Application of two intelligent systems in predicting environmental impacts of quarry blasting. <i>Arabian Journal of Geosciences</i> , 2015, 8, 9647-9665.	1.3	103
13	Neuro-fuzzy technique to predict air-overpressure induced by blasting. <i>Arabian Journal of Geosciences</i> , 2015, 8, 10937-10950.	1.3	102
14	Revealing the nature of metakaolin-based concrete materials using artificial intelligence techniques. <i>Construction and Building Materials</i> , 2022, 322, 126500.	7.2	88
15	A Gene Expression Programming Model for Predicting Tunnel Convergence. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4650.	2.5	74
16	Soft computing based closed form equations correlating L and N-type Schmidt hammer rebound numbers of rocks. <i>Transportation Geotechnics</i> , 2021, 29, 100588.	4.5	71
17	Soft computing-based models for the prediction of masonry compressive strength. <i>Engineering Structures</i> , 2021, 248, 113276.	5.3	61
18	Prediction of blast-induced air overpressure: a hybrid AI-based predictive model. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 666.	2.7	48

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19	Genetic prediction of ICU hospitalization and mortality in COVID-19 patients using artificial neural networks. <i>Journal of Cellular and Molecular Medicine</i> , 2022, 26, 1445-1455.	3.6	45
20	The effects of method of generating circular slip surfaces on determining the critical slip surface by particle swarm optimization. <i>Arabian Journal of Geosciences</i> , 2014, 7, 1529-1539.	1.3	38
21	The stability of shallow circular tunnels in soil considering variations in cohesion with depth. <i>Tunnelling and Underground Space Technology</i> , 2015, 49, 230-240.	6.2	36
22	Prediction of building damage induced by tunnelling through an optimized artificial neural network. <i>Engineering With Computers</i> , 2019, 35, 579-591.	6.1	36
23	3D prediction of tunneling-induced ground movements based on a hybrid ANN and empirical methods. <i>Engineering With Computers</i> , 2020, 36, 251-269.	6.1	32
24	Determination of three-dimensional shape of failure in soil slopes. <i>Canadian Geotechnical Journal</i> , 2015, 52, 1283-1301.	2.8	30
25	Determining the unique direction of sliding in three-dimensional slope stability analysis. <i>Engineering Geology</i> , 2014, 182, 97-108.	6.3	29
26	Reliability, availability and maintainability analysis of the conveyor system in mechanized tunneling. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 145, 756-764.	5.0	27
27	Numerical study of the segmental tunnel lining behavior under a surface explosion " Impact of the longitudinal joints shape. <i>Computers and Geotechnics</i> , 2020, 128, 103822.	4.7	26
28	The Contribution of Particle Swarm Optimization to Three-Dimensional Slope Stability Analysis. <i>Scientific World Journal</i> , The, 2014, 2014, 1-12.	2.1	23
29	Experimental study of surface failure induced by tunnel construction in sand. <i>Engineering Failure Analysis</i> , 2020, 118, 104897.	4.0	22
30	Effects of soil reinforcement on uplift resistance of buried pipeline. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 64, 57-63.	5.0	19
31	Bearing Capacity of Shallow Foundation's Prediction through Hybrid Artificial Neural Networks. <i>Applied Mechanics and Materials</i> , 0, 567, 681-686.	0.2	18
32	An ANN-Fuzzy Cognitive Map-Based Z-Number Theory to Predict Flyrock Induced by Blasting in Open-Pit Mines. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 4373-4390.	5.4	17
33	A stochastic particle swarm based model for long term production planning of open pit mines considering the geological uncertainty. <i>Resources Policy</i> , 2020, 68, 101738.	9.6	14
34	Indirect measure of thermal conductivity of rocks through adaptive neuro-fuzzy inference system and multivariate regression analysis. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 67, 71-77.	5.0	13
35	Ground Movements Prediction in Shield-Driven Tunnels using Gene Expression Programming. <i>Open Construction and Building Technology Journal</i> , 2020, 14, 286-297.	0.7	12
36	Optimal design of pile wall retaining system during deep excavation using swarm intelligence technique. <i>Structures</i> , 2020, 28, 1991-1999.	3.6	9

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37	A Review on Tunnelâ€Pile Interaction Applied by Physical Modeling. Geotechnical and Geological Engineering, 2020, 38, 3341-3362.	1.7	6
38	3D Behaviour of Buildings due to Tunnel Induced Ground Movement. Transportation Geotechnics, 2021, 31, 100661.	4.5	6
39	An Overview of the Reliability Analysis Methods of Tunneling Equipment. Open Construction and Building Technology Journal, 2020, 14, 218-229.	0.7	6
40	Investigating the interactions of acoustic waves with underground structures via the boundary element method. Applied Acoustics, 2021, 177, 107926.	3.3	4
41	Risk Assessment of Building Damage Induced by Tunnelling Through a Gene Expression Programming Model. Geotechnical and Geological Engineering, 0, , 1.	1.7	4
42	Clogging Potential of Earth-Pressure Balance Shield Driven Tunnels. Open Construction and Building Technology Journal, 2020, 14, 185-195.	0.7	2
43	Sandâ€Tire Shred Mixture Performance in Controlling Surface Explosion Hazards That Affect Underground Structures. Applied Sciences (Switzerland), 2021, 11, 11741.	2.5	2
44	Effects of tunnel face distance on surface settlement. , 2016, , 321-326.		0
45	Numerical Investigation of Innovative Support Frame of Openings in the Segmental Tunnel Lining. Open Construction and Building Technology Journal, 2020, 14, 358-369.	0.7	0