

Mohsen Hajihassani

List of Publications by Year in Descending Order

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Version: 2024-04-29

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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.

45
papers

2,019
citations

20
h-index

44
g-index

45
ext. papers

2,445
ext. citations

3.4
avg, IF

5.33
L-index

#	Paper	IF	Citations
45	Genetic prediction of ICU hospitalization and mortality in COVID-19 patients using artificial neural networks.. <i>Journal of Cellular and Molecular Medicine</i> , 2022 ,	5.6	4
44	Revealing the nature of metakaolin-based concrete materials using artificial intelligence techniques. <i>Construction and Building Materials</i> , 2022 , 322, 126500	6.7	13
43	Sandstone Shred Mixture Performance in Controlling Surface Explosion Hazards That Affect Underground Structures. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11741	2.6	1
42	Soft computing-based models for the prediction of masonry compressive strength. <i>Engineering Structures</i> , 2021 , 248, 113276	4.7	9
41	Investigating the interactions of acoustic waves with underground structures via the boundary element method. <i>Applied Acoustics</i> , 2021 , 177, 107926	3.1	2
40	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	23
39	3D Behaviour of Buildings due to Tunnel Induced Ground Movement. <i>Transportation Geotechnics</i> , 2021 , 31, 100661	4	
38	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	7.2	9
37	A Review on Tunnel-Bile Interaction Applied by Physical Modeling. <i>Geotechnical and Geological Engineering</i> , 2020 , 38, 3341-3362	1.5	1
36	Clogging Potential of Earth-Pressure Balance Shield Driven Tunnels. <i>Open Construction and Building Technology Journal</i> , 2020 , 14, 185-195	1.1	2
35	Ground Movements Prediction in Shield-Driven Tunnels using Gene Expression Programming. <i>Open Construction and Building Technology Journal</i> , 2020 , 14, 286-297	1.1	7
34	An Overview of the Reliability Analysis Methods of Tunneling Equipment. <i>Open Construction and Building Technology Journal</i> , 2020 , 14, 218-229	1.1	1
33	Numerical Investigation of Innovative Support Frame of Openings in the Segmental Tunnel Lining. <i>Open Construction and Building Technology Journal</i> , 2020 , 14, 358-369	1.1	
32	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	4.4	10
31	Experimental study of surface failure induced by tunnel construction in sand. <i>Engineering Failure Analysis</i> , 2020 , 118, 104897	3.2	5
30	Optimal design of pile wall retaining system during deep excavation using swarm intelligence technique. <i>Structures</i> , 2020 , 28, 1991-1999	3.4	5
29	3D prediction of tunneling-induced ground movements based on a hybrid ANN and empirical methods. <i>Engineering With Computers</i> , 2020 , 36, 251-269	4.5	26

28	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	4.6	15
27	Prediction of building damage induced by tunnelling through an optimized artificial neural network. <i>Engineering With Computers</i> , 2019 , 35, 579-591	4.5	27
26	A Gene Expression Programming Model for Predicting Tunnel Convergence. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4650	2.6	48
25	Applications of Particle Swarm Optimization in Geotechnical Engineering: A Comprehensive Review. <i>Geotechnical and Geological Engineering</i> , 2018 , 36, 705-722	1.5	86
24	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
23	Evaluation and prediction of flyrock resulting from blasting operations using empirical and computational methods. <i>Engineering With Computers</i> , 2016 , 32, 109-121	4.5	83
22	Prediction of seismic slope stability through combination of particle swarm optimization and neural network. <i>Engineering With Computers</i> , 2016 , 32, 85-97	4.5	186
21	Effects of tunnel face distance on surface settlement 2016 , 321-326		
20	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	4.6	9
19	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	4	170
18	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
17	Prediction of blast-induced air overpressure: a hybrid AI-based predictive model. <i>Environmental Monitoring and Assessment</i> , 2015 , 187, 666	3.1	42
16	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	4.6	191
15	Neuro-fuzzy technique to predict air-overpressure induced by blasting. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 10937-10950	1.8	81
14	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
13	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	5.7	28
12	Determination of three-dimensional shape of failure in soil slopes. <i>Canadian Geotechnical Journal</i> , 2015 , 52, 1283-1301	3.2	19
11	Effects of soil reinforcement on uplift resistance of buried pipeline. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015 , 64, 57-63	4.6	14

10	Determining the unique direction of sliding in three-dimensional slope stability analysis. <i>Engineering Geology</i> , 2014 , 182, 97-108	6	14
9	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
8	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
7	The contribution of particle swarm optimization to three-dimensional slope stability analysis. <i>Scientific World Journal, The</i> , 2014 , 2014, 973093	2.2	16
6	Bearing Capacity of Shallow Foundations Prediction through Hybrid Artificial Neural Networks. <i>Applied Mechanics and Materials</i> , 2014 , 567, 681-686	0.3	14
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	3.1	140
4	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	1.8	29
3	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	1.8	223
2	Risk Assessment of Building Damage Induced by Tunnelling Through a Gene Expression Programming Model. <i>Geotechnical and Geological Engineering</i> , 1	1.5	0
1	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> ,	5.7	1