Mohsen Hajihassani

List of Publications by Citations

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	Blasting-induced flyrock and ground vibration prediction through an expert artificial neural network based on particle swarm optimization. *Arabian Journal of Geosciences*, **2014**, 7, 5383-5396	1.8	223
44	Prediction of uniaxial compressive strength of rock samples using hybrid particle swarm optimization-based artificial neural networks. *Measurement: Journal of the International Measurement Confederation*, **2015**, 60, 50-63	4.6	191
43	Prediction of seismic slope stability through combination of particle swarm optimization and neural network. *Engineering With Computers*, **2016**, 32, 85-97	4.5	186
42	Ground vibration prediction in quarry blasting through an artificial neural network optimized by imperialist competitive algorithm. *Bulletin of Engineering Geology and the Environment*, **2015**, 74, 873-886	4	170
41	Prediction of airblast-overpressure induced by blasting using a hybrid artificial neural network and particle swarm optimization. *Applied Acoustics*, **2014**, 80, 57-67	3.1	140
40	Blast-induced air and ground vibration prediction: a particle swarm optimization-based artificial neural network approach. *Environmental Earth Sciences*, **2015**, 74, 2799-2817	2.9	129
39	Indirect measure of shale shear strength parameters by means of rock index tests through an optimized artificial neural network. *Measurement: Journal of the International Measurement Confederation*, **2014**, 55, 487-498	4.6	98
38	Applications of Particle Swarm Optimization in Geotechnical Engineering: A Comprehensive Review. *Geotechnical and Geological Engineering*, **2018**, 36, 705-722	1.5	86
37	Application of two intelligent systems in predicting environmental impacts of quarry blasting. *Arabian Journal of Geosciences*, **2015**, 8, 9647-9665	1.8	85
36	Evaluation and prediction of flyrock resulting from blasting operations using empirical and computational methods. *Engineering With Computers*, **2016**, 32, 109-121	4.5	83
35	Neuro-fuzzy technique to predict air-overpressure induced by blasting. *Arabian Journal of Geosciences*, **2015**, 8, 10937-10950	1.8	81
34	A novel approach for blast-induced flyrock prediction based on imperialist competitive algorithm and artificial neural network. *Scientific World Journal, The*, **2014**, 2014, 643715	2.2	81
33	Application of several non-linear prediction tools for estimating uniaxial compressive strength of granitic rocks and comparison of their performances. *Engineering With Computers*, **2016**, 32, 189-206	4.5	72
32	A Gene Expression Programming Model for Predicting Tunnel Convergence. *Applied Sciences (Switzerland)*, **2019**, 9, 4650	2.6	48
31	Prediction of blast-induced air overpressure: a hybrid AI-based predictive model. *Environmental Monitoring and Assessment*, **2015**, 187, 666	3.1	42
30	The effects of method of generating circular slip surfaces on determining the critical slip surface by particle swarm optimization. *Arabian Journal of Geosciences*, **2014**, 7, 1529-1539	1.8	29
29	The stability of shallow circular tunnels in soil considering variations in cohesion with depth. *Tunnelling and Underground Space Technology*, **2015**, 49, 230-240	5.7	28

28	Prediction of building damage induced by tunnelling through an optimized artificial neural network. *Engineering With Computers*, **2019**, 35, 579-591	4.5	27
27	3D prediction of tunneling-induced ground movements based on a hybrid ANN and empirical methods. *Engineering With Computers*, **2020**, 36, 251-269	4.5	26
26	Soft computing based closed form equations correlating L and N-type Schmidt hammer rebound numbers of rocks. *Transportation Geotechnics*, **2021**, 29, 100588	4	23
25	Determination of three-dimensional shape of failure in soil slopes. *Canadian Geotechnical Journal*, **2015**, 52, 1283-1301	3.2	19
24	The contribution of particle swarm optimization to three-dimensional slope stability analysis. *Scientific World Journal, The*, **2014**, 2014, 973093	2.2	16
23	Reliability, availability and maintainability analysis of the conveyor system in mechanized tunneling. *Measurement: Journal of the International Measurement Confederation*, **2019**, 145, 756-764	4.6	15
22	Determining the unique direction of sliding in three-dimensional slope stability analysis. *Engineering Geology*, **2014**, 182, 97-108	6	14
21	Effects of soil reinforcement on uplift resistance of buried pipeline. *Measurement: Journal of the International Measurement Confederation*, **2015**, 64, 57-63	4.6	14
20	Bearing Capacity of Shallow Foundations Prediction through Hybrid Artificial Neural Networks. *Applied Mechanics and Materials*, **2014**, 567, 681-686	0.3	14
19	Revealing the nature of metakaolin-based concrete materials using artificial intelligence techniques. *Construction and Building Materials*, **2022**, 322, 126500	6.7	13
18	Numerical study of the segmental tunnel lining behavior under a surface explosion Impact of the longitudinal joints shape. *Computers and Geotechnics*, **2020**, 128, 103822	4.4	10
17	Indirect measure of thermal conductivity of rocks through adaptive neuro-fuzzy inference system and multivariate regression analysis. *Measurement: Journal of the International Measurement Confederation*, **2015**, 67, 71-77	4.6	9
16	A stochastic particle swarm based model for long term production planning of open pit mines considering the geological uncertainty. *Resources Policy*, **2020**, 68, 101738	7.2	9
15	Soft computing-based models for the prediction of masonry compressive strength. *Engineering Structures*, **2021**, 248, 113276	4.7	9
14	Ground Movements Prediction in Shield-Driven Tunnels using Gene Expression Programming. *Open Construction and Building Technology Journal*, **2020**, 14, 286-297	1.1	7
13	Experimental study of surface failure induced by tunnel construction in sand. *Engineering Failure Analysis*, **2020**, 118, 104897	3.2	5
12	Optimal design of pile wall retaining system during deep excavation using swarm intelligence technique. *Structures*, **2020**, 28, 1991-1999	3.4	5
11	Genetic prediction of ICU hospitalization and mortality in COVID-19 patients using artificial neural networks.. *Journal of Cellular and Molecular Medicine*, **2022**,	5.6	4

10	Clogging Potential of Earth-Pressure Balance Shield Driven Tunnels. *Open Construction and Building Technology Journal*, **2020**, 14, 185-195	1.1	2
9	Investigating the interactions of acoustic waves with underground structures via the boundary element method. *Applied Acoustics*, **2021**, 177, 107926	3.1	2
8	A Review on Tunnel–Pile Interaction Applied by Physical Modeling. *Geotechnical and Geological Engineering*, **2020**, 38, 3341-3362	1.5	1
7	Sand–Tire Shred Mixture Performance in Controlling Surface Explosion Hazards That Affect Underground Structures. *Applied Sciences (Switzerland)*, **2021**, 11, 11741	2.6	1
6	An Overview of the Reliability Analysis Methods of Tunneling Equipment. *Open Construction and Building Technology Journal*, **2020**, 14, 218-229	1.1	1
5	An ANN-Fuzzy Cognitive Map-Based Z-Number Theory to Predict Flyrock Induced by Blasting in Open-Pit Mines. *Rock Mechanics and Rock Engineering*,	5.7	1
4	Risk Assessment of Building Damage Induced by Tunnelling Through a Gene Expression Programming Model. *Geotechnical and Geological Engineering*,1	1.5	0
3	Numerical Investigation of Innovative Support Frame of Openings in the Segmental Tunnel Lining. *Open Construction and Building Technology Journal*, **2020**, 14, 358-369	1.1	
2	Effects of tunnel face distance on surface settlement **2016**, 321-326		
1	3D Behaviour of Buildings due to Tunnel Induced Ground Movement. *Transportation Geotechnics*, **2021**, 31, 100661	4	