



Danial Jahed Armaghani

Department of Civil and Environmental Engineering,
Amirkabir University of Technology,
Tehran 15914, Iran.

Mobile: +98-9111574644

danielarmaghani@gmail.com

danielarmaghani@aut.ac.ir

Research Gate Account:

https://www.researchgate.net/profile/Danial_Jahed_Armaghani

Google Scholar Account:

<https://scholar.google.com/citations?user=aU-II54AAAAJ&hl=en>

Education:

- *SEP 2016 – Present*

AMIRKABIR UNIVERSITY OF TECHNOLOGY

Faculty of Civil and Environmental Engineering

Postdoctoral Researcher in Geotechnical Engineering,

- *SEP 2012 – June 2015.*

UNIVERSITY TECHNOLOGY MALAYSIA, JOHOR, MALAYSIA

Department of Geotechnic and Transportation

PhD in Geotechnical Engineering,

- *JAN 2011 – SEP 2012*

UNIVERSITY TECHNOLOGY MALAYSIA, JOHOR, MALAYSIA

Department of Geotechnic and Transportation

‘M. Eng in Civil - Geotechnics’, CGPA: 3.53/4

- SEP 2003 – JULY 2008

ISLAMIC AZAD UNIVERSITY, GHAEMSHAHR, IRAN

‘B. Sc of Civil Engineering’, CGPA: 15.42/20

Publication:

Paper:

(i) ISI Web of Knowledge (78 papers):

Q1 (15 papers):

1. **Jahed Armaghani D**, Hajihassani M, Bejarbaneh BY, Marto A, Edy Tonnizam Mohamad (2014) Indirect measure of shale shear strength parameters by means of rock index tests through an optimized artificial neural network. *Measurement* 55:487-498 (**IF = 2.36**)
2. Momeni E, **Jahed Armaghani D**, Hajihassani M, Amin MFM (2015) Prediction of uniaxial compressive strength of rock samples using hybrid particle swarm optimization-based artificial neural networks. *Measurement* 60:50–63 (**IF = 2.36**)
3. Momeni E, Nazir R, **Jahed Armaghani D**, Maizir H (2014) Prediction of pile bearing capacity using a hybrid genetic algorithm-based ANN. *Measurement* 57:122–131 (**IF = 2.36**)
4. Bejarbaneh BY, **Jahed Armaghani D**, Amin MFM (2015) Strength characterisation of shale using Mohr–Coulomb and Hoek–Brown criteria. *Measurement*, 63:269-281 (**IF = 2.36**)
5. Faizi K, **Jahed Armaghani D**, Sohaei H, Rashid ASA, Nazir R (2015) Deformation model of sand around short piles under pullout test. *Measurement*, 63:110-119 (**IF = 2.36**)
6. **Jahed Armaghani, D**, Faizi, K., Hajihassani, M., Edy Tonnizam Mohamad, Nazir, R. (2015). Effects of soil reinforcement on uplift resistance of buried pipeline. *Measurement*, 64, 57-63 (**IF = 2.36**)
7. Abad, SV Alavi Nezhad Khalil, A. Tugrul, C. Gokceoglu, and **D. Jahed Armaghani** (2016) Characteristics of weathering zones of granitic rocks in Malaysia for geotechnical engineering design. *Engineering Geology* 200, 94-103 (**IF = 2.57**)
8. **Jahed Armaghani, D**, Mahdiyari, A., Hasanipanah, M., Faradonbeh, R.S., Khandelwal, M. and Amnieh, H.B., Risk Assessment and Prediction of Flyrock Distance by Combined Multiple Regression Analysis and Monte Carlo Simulation of Quarry Blasting. *Rock Mechanics and Rock Engineering*, 49(9), 3631-3641. DOI 10.1007/s00603-016-1015-z (**IF = 2.9**)

9. Jahed Armaghani, D, Amin, M.F.M., Yagiz, S., Faradonbeh, R.S. and Abdullah, R.A., 2016. Prediction of the uniaxial compressive strength of sandstone using various modeling techniques. *International Journal of Rock Mechanics and Mining Sciences*, 85, pp.174-186 (**IF = 2.27**)

10. Faradonbeh, R.S., **Jahed Armaghani, D**, Monjezi, M. and Mohamad, E.T., 2016. Genetic programming and gene expression programming for flyrock assessment due to mine blasting. *International Journal of Rock Mechanics and Mining Sciences*, 88, pp.254-264 (**IF = 2.27**)

11. Armaghani, D.J., Mohamad, E.T., Narayanasamy, M.S., Narita, N. and Yagiz, S., 2017. Development of hybrid intelligent models for predicting TBM penetration rate in hard rock condition. *Tunnelling and Underground Space Technology*, 63, pp.29-43 (**IF = 2.19**)

12. Mohamad, E. T., **Armaghani, D. J.**, Mahdyar, A., Komoo, I., Kassim, K. A., Abdullah, A., & Majid, M. Z. A. (2017). Utilizing regression models to find functions for determining ripping production based on laboratory tests. *Measurement 111 (2017) 216–225* (**IF = 2.36**)

13. Motaghedi H, **Jahed Armaghani D** (2016) New Method for Estimation of Soil Shear Strength Parameters Using Results of Piezocone. *Measurement 77:132–142* (**IF = 2.36**)

14. Murlidhar, B.R., Mohamad, E.T. and **Jahed Armaghani, D**. 2015. Potential Alkali Silica Reactivity of various rock types in an aggregate granite quarry. *Measurement*. 81, 221–231 (**IF = 2.36**)

15. Hasanipanah M, Monjezi M, Shahnazar A, **Jahed Armaghani D**, Farazmand A, (2015) Feasibility of indirect determination of blast induced ground vibration based on support vector machine. *Measurement 75:289–297* (**IF = 2.36**)

Q2 (43 papers):

1. Jahed Armaghani D, Momeni E, Alavi Nezhad Khalil Abad SV, Khandelwal M (2015) Feasibility of ANFIS model for prediction of ground vibrations resulting from quarry blasting. *Environ Earth Sci*. DOI 10.1007/s12665-015-4305-y (**IF = 1.57**)

2. Hajihassani M, **Jahed Armaghani D**, Monjezi M, Edy Tonnizam Mohamad, Marto A (2015) Blast-induced air and ground vibration prediction: a particle swarm optimization-based artificial neural network approach. *Environ Earth Sci*. doi:10.1007/ s12665-015-4274-1 (**IF = 1.57**)

3. Armaghani, D. J., Safari, V., Fahimifar, A., Monjezi, M., & Mohammadi, M. A. (2017). Uniaxial compressive strength prediction through a new technique based on gene expression programming. *Neural Computing and Applications*, DOI 10.1007/s00521-017-2939-2 (**IF = 2.5**)

4. Marto A, Hajihassani M, **Jahed Armaghani D**, Edy Tonnizam Mohamad, Makhtar AM (2014) A novel approach for blast-induced flyrock prediction based on imperialist competitive algorithm and artificial neural network. *Sci World J* (Article ID 643715) (**IF = 1.2**)
5. Hajihassani M, **Jahed Armaghani D**, Sohaei H, Edy Tonnizam Mohamad, Marto A (2014) Prediction of airblast-overpressure induced by blasting using a hybrid artificial neural network and particle swarm optimization. *Appl Acoust* 80:57–67 (**IF = 1.46**)
6. Hasanipanah, M., Faradonbeh, R. S., **Armaghani, D. J.**, Amnieh, H. B., & Khandelwal, M. (2017). Development of a precise model for prediction of blast-induced flyrock using regression tree technique. *Environmental Earth Sciences*, 76(1), 27 (**IF = 1.57**)
7. **Jahed Armaghani D**, Hajihassani M, Marto A, Shirani Faradonbeh R, Tonnizam Mohamad E (2015) Prediction of Blast-Induced Air Overpressure: A Hybrid AI-Based Predictive Model. *Environmental Monitoring and Assessment* DOI:10.1007/s10661-015-4895-6 (**IF = 1.63**)
8. Tonnizam Mohamad E, **Jahed Armaghani D**, Hasanipanah M, Ramesh Murlidhar B, Asmawisham Alel MN (2015) Estimation of air-overpressure produced by blasting operation through a neuro-genetic technique. *Environmental Earth Sciences* DOI 10.1007/s12665-015-4983-5 (**IF = 1.57**)
9. **Jahed Armaghani D**, Nizam Shah bin Raja Shoib RS, Faizi k, Rashid ASA. (2015) Developing a Hybrid PSO-ANN Model for Estimating the Ultimate Bearing Capacity of Rock-Socketed Piles. *Neural Computing and Applications*. DOI: 10.1007/s00521-015-2072-z (**IF = 2.5**)
11. Faradonbeh, R.S., **Jahed Armaghani, D**, Amnieh, H.B. and Mohamad, E.T., (2016) Prediction and minimization of blast-induced flyrock using gene expression programming and firefly algorithm. *Neural Computing and Applications*, DOI 10.1007/s00521-016-2537-8 (**IF = 2.5**)
12. Ghoraba, S., Monjezi, M., Talebi, N., **Jahed Armaghani, D**, and Moghaddam, M.R., 2016. Estimation of ground vibration produced by blasting operations through intelligent and empirical models. *Environmental Earth Sciences*,75(15), p.1137 (**IF = 1.57**)
13. Abad, S.V.A.N.K., Yilmaz, M., **Jahed Armaghani, D**, and Tugrul, A., 2016. Prediction of the durability of limestone aggregates using computational techniques. *Neural Computing and Applications*, DOI 10.1007/s00521-016-2456-8 (**IF = 2.5**)
14. Hasanipanah, M., **Jahed Armaghani, D**, Amnieh, H.B., Majid, M.Z.A. and Tahir, M.M., 2016. Application of PSO to develop a powerful equation for prediction of flyrock due to blasting. *Neural Computing and Applications*, DOI 10.1007/s00521-016-2434-1 (**IF = 2.5**)
15. Mohamad, E.T., Faradonbeh, R.S., **Jahed Armaghani, D**, Monjezi, M. and Majid, M.Z.A., 2016. An optimized ANN model based on genetic algorithm for predicting ripping production. *Neural Computing and Applications*, DOI 10.1007/s00521-016-2359-8 (**IF = 2.5**)

16. Hasanipanah, M., **Jahed Armaghani, D**, Monjezi, M. and Shams, S., 2016. Risk assessment and prediction of rock fragmentation produced by blasting operation: a rock engineering system. *Environmental Earth Sciences*, 75(9), DOI 10.1007/s12665-016-5503-y (**IF = 1.57**)
17. Khandelwal, M., **Jahed Armaghani, D**, Faradonbeh, R.S., Ranjith, P.G. and Ghoraba, S., 2016. A new model based on gene expression programming to estimate air flow in a single rock joint. *Environmental Earth Sciences*, 75:739 (**IF = 1.57**)
18. Faradonbeh, R.S., **Jahed Armaghani, D**, Majid, M.A., Tahir, M.M., Murlidhar, B.R., Monjezi, M. and Wong, H.M., 2016. Prediction of ground vibration due to quarry blasting based on gene expression programming: a new model for peak particle velocity prediction. *International Journal of Environmental Science and Technology*, 13(6), pp.1453-1464 (**IF = 2.34**)
19. Faradonbeh, R.S., **Jahed Armaghani, D**, and Monjezi, M., (2016) Development of a new model for predicting flyrock distance in quarry blasting: a genetic programming technique. *Bulletin of Engineering Geology and the Environment*, DOI 10.1007/s10064-016-0872-8 (**IF = 1.9**)
20. **Jahed Armaghani D**, Edy Tonnizam Mohamad, Momeni E, Narayanasamy MS, Mohd Amin MF (2014) An adaptive neuro-fuzzy inference system for predicting unconfined compressive strength and Young's modulus: a study on Main Range granite. *Bull Eng Geol Environ*. doi:10.1007/s10064-014-0687-4 (**IF = 1.9**)
21. Hajihassani M, **Jahed Armaghani D**, Marto A, Edy Tonnizam Mohamad, (2015) Ground vibration prediction in quarry blasting through an artificial neural network optimized by imperialist competitive algorithm. *Bull. Eng. Geol. Environ*, 74:873–886 doi:10.1007/s10064-014-0657-x (**IF = 1.9**)
22. Edy Tonnizam Mohamad, **Jahed Armaghani, D.**, Momeni, E., Alavi Nezhad Khalil Abad, S.V., 2014. Prediction of the unconfined compressive strength of soft rocks: a PSO-based ANN approach. *Bull. Eng. Geol. Environ*. 74:745–757, doi:10.1007/s10064-014-0638-0 (**IF = 1.9**)
23. Ebrahimi E, Monjezi M, Khalesi MR, **Jahed Armaghani D** (2015) Prediction and optimization of back-break and rock fragmentation using an artificial neural network and a bee colony algorithm. *Bull Eng Geol Environ*. doi:10.1007/s10064-015-0720-2 (**IF = 1.9**)
24. **Armaghani, Danial Jahed**, Mahdi Hasanipanah, Hassan Bakhshandeh Amnieh, and Edy Tonnizam Mohamad. "Feasibility of ICA in approximating ground vibration resulting from mine blasting." *Neural Computing and Applications*: DOI 10.1007/s00521-016-2577-0 (**IF = 2.5**)
25. Mohamad, E. T., **Armaghani, D. J.**, Momeni, E., Yazdavar, A. H., & Ebrahimi, M. Rock strength estimation: a PSO-based BP approach. *Neural Computing and Applications*, DOI 10.1007/s00521-016-2728-3 (**IF = 2.5**)

26. Bejarbaneh, B. Y., Bejarbaneh, E. Y., Fahimifar, A., **Armaghani, D. J.**, & Majid, M. Z. A. Intelligent modelling of sandstone deformation behaviour using fuzzy logic and neural network systems. *Bulletin of Engineering Geology and the Environment*, DOI 10.1007/s10064-016-0983-2 (**IF = 1.9**)
27. **Armaghani, Danial Jahed**, Roohollah Shirani Faradonbeh, Hossein Rezaei, Ahmad Safuan A. Rashid, and Hassan Bakhshandeh Amnieh. (2016) "Settlement prediction of the rock-socketed piles through a new technique based on gene expression programming." *Neural Computing and Applications* DOI 10.1007/s00521-016-2618-8 (**IF = 2.5**)
28. **Armaghani, D. J.**, Hasanipanah, M., Mahdiyar, A., Majid, M. Z. A., Amnieh, H. B., & Tahir, M. M. (2016). Airblast prediction through a hybrid genetic algorithm-ANN model. *Neural Computing and Applications*, DOI 10.1007/s00521-016-2598-8 (**IF = 2.5**)
29. Mohammadreza Koopialipoor, **Danial Jahed Armaghani**, Mojtaba Haghghi, Ebrahim Noroozi Ghaleini (2017) A neuro-genetic predictive model to approximate overbreak induced by drilling and blasting operation in tunnels. *Bull Eng Geol Environ* DOI 10.1007/s10064-017-1116-2 (**IF = 1.9**)
30. Khandelwal, M., Mahdiyar, A., **Armaghani, D. J.**, Singh, T. N., Fahimifar, A., & Faradonbeh, R. S. (2017). An expert system based on hybrid ICA-ANN technique to estimate macerals contents of Indian coals. *Environmental Earth Sciences*, 76(11), 399 (**IF = 1.57**)
31. Hasanipanah, M., H. Bakhshandeh Amnieh, H. Khamesi, **D. Jahed Armaghani**, S. Bagheri Golzar, and A. Shahnazar (2017) "Prediction of an environmental issue of mine blasting: an imperialistic competitive algorithm-based fuzzy system." *International Journal of Environmental Science and Technology*: DOI 10.1007/s13762-017-1395-y (**IF = 2.34**)
32. Shahnazar, Azam, Hima Nikafshan Rad, Mahdi Hasanipanah, M. M. Tahir, **Danial Jahed Armaghani**, and Mahyar Ghoroghi. "A new developed approach for the prediction of ground vibration using a hybrid PSO-optimized ANFIS-based model." *Environmental Earth Sciences* 76, no. 15 (2017): 527 (**IF = 1.57**)
33. **Jahed Armaghani D**, Hasanipanah, M., Edy Tonnizam Mohamad, (2015). A combination of the ICA-ANN model to predict air-overpressure resulting from blasting. *Eng Comput*. DOI 10.1007/s00366-015-0408-z (**IF = 0.77**)
34. Shirani Faradonbeh R, Monjezi M, **Jahed Armaghani D** (2015) Genetic programming and non-linear multiple regression techniques to predict backbreak in blasting operation. *Eng Comput*. doi:10.1007/s00366-015-0404-3 (**IF = 0.77**)
35. Gordan B, **Jahed Armaghani D**, Hajihassani M, Monjezi M (2015) Prediction of seismic slope stability through combination of particle swarm optimization and neural network. *Eng Comput*. doi:10.1007/s00366-015-0400-7 (**IF = 0.77**)

36. Jahed Armaghani D, Edy Tonnizam Mohamad, Hajihassani M, Alavi Nezhad Khalil Abad SV, Marto A, Moghaddam MR (2015) Evaluation and prediction of flyrock resulting from blasting operations using empirical and computational methods. Eng Comput. doi:10.1007/s00366-015-0402-5 (**IF = 0.77**)

37. Jahed Armaghani D, Edy Tonnizam Mohamad, Hajihassani M, Yagiz S, Motaghedi H (2015) Application of several non-linear prediction tools for estimating uniaxial compressive strength of granitic rocks and comparison of their performances. Eng Comput. Doi: 10.1007/s00366-015-0410-5 (**IF = 0.77**)

38. Saghatforoush A, Monjezi M, Faradonbeh RS, **Jahed Armaghani D** (2015) Combination of neural network and ant colony optimization algorithms for prediction and optimization of flyrock and back-break induced by blasting. Eng Comput DOI: 10.1007/s00366-015-0415-0 (**IF = 0.77**)

39. Maybelle Liang, Edy Tonnizam Mohamad, Roohollah Shirani Faradonbeh, **Danial Jahed Armaghani**, Saber Ghoraba (2016) Rock strength assessment based on regression tree technique. Engineering with Computers DOI 10.1007/s00366-015-0429-7 (**IF = 0.77**)

40. Hasanipanah, Mahdi, **Danial Jahed Armaghani**, Hossein Khamesi, Hassan Bakhshandeh Amnieh, and Saber Ghoraba. (2015) Several non-linear models in estimating air-overpressure resulting from mine blasting. Engineering with Computers DOI:10.1007/s00366-015-0425-y (**IF = 0.77**)

41. Khandelwal, M., **Jahed Armaghani, D**, Faradonbeh, R.S., Yellishetty, M., Majid, M.Z.A. and Monjezi, M., 2016. Classification and regression tree technique in estimating peak particle velocity caused by blasting. Engineering with Computers, DOI 10.1007/s00366-016-0455-0 (**IF = 0.77**)

42. Khandelwal, M., Faradonbeh, R.S., Monjezi, M., **Jahed Armaghani, D**, Majid, M.Z.B.A. and Yagiz, S., 2016. Function development for appraising brittleness of intact rocks using genetic programming and non-linear multiple regression models. Engineering with Computers, DOI 10.1007/s00366-016-0452-3 (**IF = 0.77**)

43. Monjezi, M., Baghestani, M., Faradonbeh, R.S., Saghand, M.P. and **Jahed Armaghani, D**, 2016. Modification and prediction of blast-induced ground vibrations based on both empirical and computational techniques. Engineering with Computers, DOI 10.1007/s00366-016-0448-z (**IF = 0.77**)

Q3 (7 papers):

1. Jahed Armaghani D, Hajihassani M, Edy Tonnizam Mohamad, Marto A, Noorani SA (2014) Blasting-induced flyrock and ground vibration prediction through an expert artificial neural network based on particle swarm optimization. Arab J Geosci 7:5383–5396 (**IF = 1.22**)

2. Jahed Armaghani D, Hajihassani M, Monjezi M, Edy Tonnizam Mohamad, Marto A, Moghaddam MR (2015) Application of two intelligent systems in predicting environmental impacts of quarry blasting. Arab J Geosci. doi:10.1007/s12517-015-1908-2 (**IF = 1.22**)

3. Jahed Armaghani D, Hajihassani, M., Sohaei, H., Edy Tonnizam Mohamad, Marto, A., Motaghedi, H., & Moghaddam, M. R. (2015). Neuro-fuzzy technique to predict air-overpressure induced by blasting. Arab J Geosci, DOI 10.1007/s12517-015-1984-3 (**IF = 1.22**)

4. Shams S, Monjezi M, Majd V J, Jahed Armaghani D (2015) Application of fuzzy inference system for prediction of rock fragmentation induced by blasting. Arab J Geosci, DOI 10.1007/s12517-015-1952-y. (**IF = 1.22**)

5. Momeni E, Nazir R, Jahed Armaghani D, Sohaie H, (2015) Bearing Capacity of Precast Thin-Wall Foundation in Sand. Proceedings of the Institution of Civil Engineers journal Geotechnical Engineering. DOI:org/10.1680/jgeen.14.00177 (**IF = 0.58**)

6. Jahed Armaghani D, Edy Tonnizam Mohamad, Momeni E, Monjezi M, Mogana Sundaram Narayanasamy (2015) Prediction of the strength and elasticity modulus of granite through an expert artificial neural network. Arab J Geoscience, DOI 10.1007/s12517-015-2057-3 (**IF = 1.22**)

7. Raja Shoib, R. S. N. S., Rashid, A. S. A., & Armaghani, D. J. (2017). Shaft resistance of bored piles socketed in Malaysian granite. Proceedings of the Institution of Civil Engineers-Geotechnical Engineering, doi.org/10.1680/jgeen.15.00186 (**IF = 0.58**)

Q4 (13 papers):

1. Faizi, K., Jahed Armaghani, D., Momeni, E., Nazir, R., Edy Tonnizam Mohamad, (2014). Uplift Resistance of Buried Pipelines Enhanced by Geogrid. Soil Mechanics and Foundation Engineering, 51(4), 188-195 (**IF = 0.35**)

2. Momeni E, Nazir R, Jahed Armaghani D, Maizir H (2015) Application of Artificial Neural Network for Predicting Shaft and Tip Resistances of Concrete Piles. Earth Sciences Research Journal 19: 85 – 93 (**IF = 0.3**)

3. Gordan, B., D. Jahed Armaghani, A. B. Adnan, and A. S. A. Rashid. "A New Model for Determining Slope Stability Based on Seismic Motion Performance." Soil Mechanics and Foundation Engineering 5, no. 53 (2016): 344-351 (**IF = 0.35**)

4. Hasanipanah, M., Shahnazar, A., Amnieh, H.B. and **Jahed Armaghani, D**, 2016. Prediction of air-overpressure caused by mine blasting using a new hybrid PSO–SVR model. *Engineering with Computers*, DOI 10.1007/s00366-016-0453-2 (**IF = 0.77**)
5. Hasanipanah, M., Noorian-Bidgoli, M., **Jahed Armaghani, D**, and Khamesi, H., 2016. Feasibility of PSO-ANN model for predicting surface settlement caused by tunneling. *Engineering with Computers*, DOI 10.1007/s00366-016-0447-0 (**IF = 0.77**)
6. Hasanipanah, Mahdi, Roohollah Shirani Faradonbeh, Hassan Bakhshandeh Amnieh, **Danial Jahed Armaghani**, and Masoud Monjezi. "Forecasting blast-induced ground vibration developing a CART model." *Engineering with Computers* (2016): DOI 10.1007/s00366-016-0475-9
7. Mahdiyar, A., Hasanipanah, M., **Armaghani, D. J.**, Gordan, B., Abdullah, A., Arab, H., & Majid, M. Z. A. (2017). A Monte Carlo technique in safety assessment of slope under seismic condition. *Engineering with Computers*, DOI 10.1007/s00366-016-0499-1 (**IF = 0.77**)
8. **Armaghani, D. J.**, Faradonbeh, R. S., Momeni, E., Fahimifar, A., & Tahir, M. M. (2017). Performance prediction of tunnel boring machine through developing a gene expression programming equation. *Engineering with Computers*, DOI 10.1007/s00366-017-0526-x (**IF = 0.77**)
9. Faizi, K., Rashid, A. S. A., **Armaghani, D. J.**, Nazir, R., & Momeni, E. The Influence of Bituminous Coating on Uplift Resistance of Short Pile Foundations in Sand. *Soil Mechanics and Foundation Engineering*, 2017, 3:177-182 (**IF = 0.35**)
10. Momeni, Ehsan, **Danial Jahed Armaghani**, Seyed Alireza Fatemi, and Ramli Nazir. "Prediction of bearing capacity of thin-walled foundation: a simulation approach." *Engineering with Computers* (2017): DOI 10.1007/s00366-017-0542-x (**IF = 0.77**)
11. Manoj Khandelwal, Aminaton Marto, Seyed Alireza Fatemi, Mahyar Ghoroghi, **Danial Jahed Armaghani**, T. N. Singh, Omid Tabrizi (2017) Implementing an ANN model optimized by genetic algorithm for estimating cohesion of limestone samples. *Engineering with Computers*. <https://doi.org/10.1007/s00366-017-0541-y> (**IF = 0.77**)
12. Asl, Parvin Faraji, Masoud Monjezi, Jafar Khademi Hamidi, and **Danial Jahed Armaghani**. "Optimization of flyrock and rock fragmentation in the Tajareh limestone mine using metaheuristics method of firefly algorithm." *Engineering with Computers* (2017): 1-11 (**IF = 0.77**)
13. Moayedi, Hossein, and **Danial Jahed Armaghani**. "Optimizing an ANN model with ICA for estimating bearing capacity of driven pile in cohesionless soil." *Engineering with Computers* (2017): <https://doi.org/10.1007/s00366-017-0545-7> (**IF = 0.77**)

(ii) Scopus (17 papers):

1. Edy Tonnizam Mohamad, **Jahed Armaghani, D.**, Noorani, S.A., Saad, R., and Alavi Nezhad Khaili Abad, S.V. 2012. Prediction of Flyrock in Boulder Blasting by Using Artificial Neural Network. *Electronic Journal of Geotechnical Engineering*. Vol.17, Bund. R, 2585-2595.
2. Edy Tonnizam Mohamad, Noorani, S.A., **Jahed Armaghani, D.**, and Saad, R. 2012. Simulation of Blasting Induced Ground Vibration by Using Artificial Neural Network. *Electronic Journal of Geotechnical Engineering*. Vol.17, Bund. R, 2571-2583.
3. Edy Tonnizam Mohamad, Hajihassani, M., **Jahed Armaghani, D.**, and Marto, A. 2012. Simulation of Blasting-Induced Air Overpressure by Means of Artificial Neural Networks. *International Review on Modelling and Simulations*. Vol. 5, N. 6, 2501-2506.
4. Arefnia, A., **Jahed Armaghani, D.**, Momeni, E. 2013. Comparative Study on the Effect of Tire- Derived Aggregate on Specific Gravity of Kaolin. *Electronic Journal of Geotechnical Engineering*. Vol.18, Bund. B, 335-344.
5. Edy Tonnizam Mohamad, **Jahed Armaghani, D.**, Hajihassani, M., Faizi, K., and Marto, A. 2013. A Simulation Approach to Predict Blasting-Induced Flyrock and Size of Thrown Rocks. *Electronic Journal of Geotechnical Engineering*. Vol.18, Bund. B, 365-374.
6. Faizi, K., **Jahed Armaghani, D.**, Kassim, A., and Lonbani, M. 2013. Evaluation of Geotextiles on Embankment Displacement under Seismic Load. *Electronic Journal of Geotechnical Engineering*. Vol.18, Bund. C, 439-449.
7. Hajihassani, M., **Jahed Armaghani, D.**, and Faizi, K. 2013. Effects of Geotechnical Conditions on Surface Settlement Induced by Tunneling in Soft Grounds. *Electronic Journal of Geotechnical Engineering*. Vol. 18, Bund. F, 1163-1170.
8. Ramli Nazir., Momeni, E., **Jahed Armaghani, D.**, and Mohd For Mohd Amin. Correlation Between Unconfined Compressive Strength and Indirect Tensile Strength of Limestone Rock Samples. *Electronic Journal of Geotechnical Engineering*. Vol. 18, Bund. I, 1737-1746.
9. Ramli Nazir, Momeni, E. **Jahed Armaghani, D.**, and Mohd For Mohd Amin. 2013. Prediction of Unconfined Compressive Strength of Limestone Rock Samples Using L-Type Schmidt Hammer. *Electronic Journal of Geotechnical Engineering*. Vol. 18, Bund. I, 1767-1775.
10. Abad, S. V. A. N. K., Edy Tonnizam Mohamad, **Jahed Armaghani, D.**, and Kalatehjari, R. 2013. Stability Analysis of A Railway Trench By Using Stereographical Projection. *Electronic Journal of Geotechnical Engineering*. Vol. 18, Bund. P, 1401-1409.
11. Edy Tonnizam Mohamad, **Jahed Armaghani, D.**, and Motaghedi, H. 2013. The Effect of Geological Structure and Powder Factor in Flyrock Accident, Masai, Johor, Malaysia. *Electronic Journal of Geotechnical Engineering*. Vol. 18, Bund. X, 5661-5672.

12. Arefnia, A., Momeni, E., **Jahed Armaghani, D.**, Khairul Anuar Kassim, Kamarudin Ahmad. 2014. Effect of Tire Derived Aggregate on Maximum Dry Density of Kaolin. *Jurnal Teknologi*. 66:1, 19–23.

13. Rashid, A. S. A., Faizi, K., **Jahed Armaghani, D.**, Nazir, R. (2015). Deformation Model of Deep Soil Mixing Using Finite Element Method. *Jurnal Teknologi*, 74(1). 171–176.

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(iii) Conference (6 papers):

1. **Jahed Armaghani, D.**, Hajihassani, M., Faizi, K., Edy Tonnizam Mohamad, 2013. A Simulation Approach to Predict Uniaxial Compressive Strength of Shale and Sandstone Samples Using Artificial Neural Network. In 1st Iranian Conference on Geotechnical Engineering, 22-23 October 2013 University of Mohaghegh Ardabili, Ardabil, Iran. P 603.

2. Koohyar Faizi, K., Vahabi, A., **Jahed Armaghani, D.** 2013. Recommended Method for Soil Nailing to Provide Stability of Drill Hole in the Loose Soil. *International Conference on Civil Engineering Architecture & Urban Sustainable Development* 27&28 November 2013, Tabriz, Iran. Volume2, A-Unit One, Part: Civil Engineering and stable development, pp 35.

3. **Jahed Armaghani D.**, Hajihassani M, Faizi K, (2014) Soil Compaction Characteristics Modeling using Adaptive Neuro-fuzzy Inference System. 1st National Congress on Soil Mechanics and Foundation Engineering Shahid Rajaei Teacher Training University, Tehran, Iran 3-4 December 2014, pp. 1-6

4. **D Jahed Armaghani**, M Monjezi, B Ramesh Murlidhar, E Tonnizam Mohamad (2016) Indirect Estimation of Rock Tensile Strength Based On Simple and Multiple Regression Analyses. *INDOROCK 2016: 6th Indian Rock Conference* 17-18 June 2016, India pp. 593-603

5. Ramesh Murlidhar Bhatawdekar, Tonnizam Mohamad Edy, Trilok Nath Singh, **Jahed Armaghani Danial**. (2017) ROCK MASS CLASSIFICATION FOR LIMESTONE IN TOPICAL CLIMATE FOR BLASTING. 15th NCB International Seminar on Cement, Concrete and Building Materials 05-08 December 2017, New Delhi, INDIA.

6. Ramesh Murlidhar Bhatawdekar, Mohamad Tonnizam Edy, **Jahed Armaghani Danial**, Suryanshu Choudhury (2017). BUILDING INFORMATION MODEL FOR DRILLING AND BLASTING. 3rd INTERNATIONAL CONFERENCE ON ADVANCED TECHNOLOGY IN EXPLORATION AND EXPLOITATION OF MINERALS, 20-22 January'2017, Jaipur, India, pp. 28-34.

Book:

Jahed Armaghani D, and Edy Tonnizam Mohamad (2012) Prediction of Flyrock in Boulder Blasting Using Neural Network. Lab Lambert Academic Publisher. Germany.

Research Activities:

Tunnel Boring Machine Performance Prediction in Tropically Weathered Granite through Empirical and Computational Methods

PhD Dissertation, University Technology Malaysia (SEP 2012- June 2015)

Prediction of Flyrock in Boulder Blasting by Using Artificial Neural Network

Master`s Project Report. University Technology Malaysia (Jun 2011-Aug 2012)

Work as Researcher:

Visiting Junior Researcher, (Universiti Teknologi Malaysia) (Feb 2016 – Aug 2016)

Associate Research Fellow, (Universiti Teknologi Malaysia) (Feb 2016 – Feb 2019)

Post-Doctoral Fellow (Amirkabir University of Technology) (Aug 2016 – Present)

Visiting Junior Researcher, (Universiti Teknologi Malaysia) (Sep 2016 – Feb 2017)

Visiting Junior Researcher, (Universiti Teknologi Malaysia) (July 2017 – Dec 2017)

Academic Position:

Part time lecturer, Roozbahan University, Sari, Iran (Subject Name: Site Investigation-Master Level)

External Supervisor of a Ph.D student at Universiti Teknologi Malaysia (UTM)

Review for Well-Established Journals:

Journal of Hazardous Materials (**Q1, IF = 4.53**)

International Journal of Rock Mechanics and Mining Sciences (**Q1, IF = 1.686**)

Engineering Geology (**Q1, IF = 2.57**)

Tunnelling and Underground Space Technology (**Q1, IF = 2.19**)

Environmental Earth Sciences (**Q2, IF = 1.57**)

Engineering with Computers (**Q2, IF = 1.45**)

Neural Computing and Applications (**Q2, IF = 1.569**)

International Journal of Environmental Science and Technology (**Q2, IF = 2.190**)

Geomechanics and Engineering (**Q3, IF = 0.604**)

Geotechnical and Geological Engineering (**ISI listed**)

Data in Brief

Journal of Rehabilitation in Civil Engineering

HONORS/AWARDS:

Chancellor's Award of 55th Convocation, UTM, Johor, Skudai, 24 Oct 2015

Best Student Award based on excellent academic achievement in 55th Convocation Ceremony, 23 Oct 2015

International Doctoral Fellowship (Semester I and II 2012- 2013, Semester I and II 2013- 2014 and Semester I and II 2014- 2015).

Professionals Societies:

Student member of American Society of Civil Engineering (ASCE)

Member of Iranian Construction Engineering Organization (ICEO)

Continuous member of Iranian Tunnelling Association (IRTA)

Iranian Geotechnical Society (IGS)

Young Researchers and Elite Club, Qaemshahr Branch, Islamic Azad University

SKILLS/ABILITIES:

- Language:
 - English: Fluent
 - Persian: Fluent
- Computer skills:
 - Competent in MS Office packages
 - ETABS,SAFE ,PLAXIS, GEOSTUDIO, AUTO CAD: (upper Intermediate)
 - ABAQUS, MATLAB, SPSS, Minitab, Prezi,: Familiar
- Certificate of Intermediate Level of English Course by SPACE

References are available upon request.