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QUALIFICATIONS:

- Ph.D. in Mining Engineering (2000), Banaras Hindu University, India.
- Master of Technology in Mining Engineering (1992), Faculty of Engineering, University of Tehran
- Graduation Mining Engineering (1988), Faculty of Engineering, University of Tehran

List of M-Tech Thesis Supervised

- * Design of Excavation Phases and Blasting Pattern for Large Section Tunnels
- * Selection of Drilling & Blasting Pattern on the Basis of Geomechanical Parameters of Rocks in Open Pit Mines
- * Analysis of Drilling Pipe Stuck in Directional Wells at Ahwaz Field
- * Evaluation of Effecte of Blasting Parameters on Fragmentation in Songoun Copper Mine Using Fuzzy Logic
- * Design of Stable Slopes in Songoun Copper Mine
- * Ultimate Open Pit Design for Se-Chahun Iron Mine
- * Ultimate Open Pit Design for Jalal Abad Iron Mine
- * Evaluation of the relationship between performance of shearer and physico-mechanical properties of coal in the Tabas Coal Mine
- * A model of drill bit penetration rate in drilling operation of surface excavation

MEMBER OF PROFESSIONAL BODIES

- * MEMBER, Iranian Society of Rock Mechanics.
- * MEMBER , Iranian Society of Mining Engineers.

Courses

1. Advanced Drilling and Blasting
2. Advanced Surface Mining
3. Advanced Geotechniques

Edited Books

1. Blast Engineering in Open Pits using Intelligent Systems

Conference Papers

1. Singh.T.N & Monjezi, M., 2003, Abrasivity of some Indian rocks- an experimental approach, First mine drilling conference, Bafgh, Iran.
2. Monjezi, M., Singh.T.N., Pandey, A. & Surab, P. 2003, Geo-mechanical modeling for optimization of rock slope in an open cast coal mine, Fifth International conference on case histories in geotechnical engineering.
3. Singh.T.N & Monjezi, M., Kanchan, R, Saigal, K. & Verma, A. K., 2004, Adaptive neuro-fuzzy model base prediction of fracture toughness of rock, Fifth Iranian conference on fuzzy systems.
4. Monjezi, M., Dehghan Janabadi, H & Samiminamin, F., 2007. Environmental effects evaluation of open pit mine 32nd conference of safety in mines institutes, Beijing, China.
5. Hesami, M., Monjezi, M. & Dehghani, H., 2008, Pillar Stress Prediction in Bord and Pillar Method Using Artificial Neural Networks, 21th world mining congress, Krakow, Poland.
6. Jayanthu, S., Rao, V. R., Laxmainarayana, V. & Monjezi, M. 2008, Mine Accidents Due to Strata Control Problems Vis-A-Viz Geotechnical Investigations, ISRM International Symposium, Tehran, Iran.

LIST OF INTERNATIONAL PUBLICATIONS

1. Design and implementation of an information system for world mineral commodity market, Journal of Mines, Metals and Fuels, 1384.
2. Modeling and Preliminary resource estimation of the Cheshmeh Zard gold seposit, , Journal of Mines, Metals and Fuels, 1384
3. An Instability Prediction of Waste Dump in an Open Cast Mine, Mining Engineers Journal, 1385
4. prediction and analysis of blast parameters using artificial neural network, Noise and vibration worldwide, 1385

5. Use of Back Propagation Neural Network to Estimate Burden in Tunnel Blasting, Journal of Mines, Metals and Fuels , 1385
6. Evolution of a Mathematical Model for Determination of Burden in Blasting Operations , Journal of Mines, Metals and Fuels , 1385
7. Influence of Initiation Mode of Explosives in Opencast Blasting on Ground Vibration, Mining Technology, Maney Publishing, 1386
8. Stability analysis of dump slope of a surface mine, Mining Engineers Journal, 2008
9. Evaluation of Effect of Blasting Pattern Parameters on Back Break Using Neural Networks, International Journal of Rock mechanics and mining sciences, 2008.
10. Environmental Impact Assessment of Open Pit Mining of Iran, Environmental Geology, 2008
11. Geochemical Modeling of Cyanide in Tailing dam Gold Processing Plant, Environmental Geology, 2008
12. Controlled Blasting Operation for New Road Formation Cutting in Difficult Hilly Terrain, Mining Engineers Journal, 2009
13. Prediction of Rock Fragmentation Due to Blasting in Gol-E-Gohar Iron Mine Using Fuzzy Logic, International Journal of Rock mechanics and mining sciences, in press.
14. Determination of Effective Parameters on Fragmentation Using Artificial Neural Networks, Journal of Mines, Metal & Fuels, In Press, 2009.
15. Evaluation of boring machine performance with special reference to geomechanical characteristics, International Journal of Minerals, Metallurgy and Materials, Vol. 16, No.6, 2009.
16. Intelligent Prediction of Heating Value of Coal, Iranian Journal of Earth Sciences, Vol. 1, No.2, 2010.
17. Application of TOPSIS Method for Selecting the Most Appropriate Blast Design, Arabian Journal of Geosciences, In Press, 2010.
18. Prediction of backbreak in open-pit blasting using fuzzy set theory, Expert Systems with Applications, Vol. 37, No.3, 2010.
19. Prediction of Rock Fragmentation Due to Blasting Using Artificial Neural Network, Engineering with Computers, In Press, 2010.
20. Predicting Blast-induced Ground Vibration Using Various Types of Neural Networks, Soil Dynamics and Earthquake Engineering, In Press, 2010.
21. Prediction of Blast-induced Ground Vibration Using Artificial Neural Networks, Tunnelling and Underground Space Technology, In Press, 2010.
22. Prediction of Rock Fragmentation Due to Blasting in Sarcheshmeh Copper Mine Using Artificial Neural Networks, Geotechnical and Geological Engineering, 2010.
23. Prediction of rock fragmentation due to blasting using artificial neural network, Engineering with Computers, 2010.

24. M. Monjezi, H. Amini Khoshalan and A. Yazdian Varjani Optimization of Open pit Blast Parameters using Genetic Algorithm International Journal of Rock Mechanics and Mining Sciences
25. M. Monjezi, M. Ghafurikalajahi and A. Bahrami Prediction of blast-induced ground vibration using artificial neural networks Tunneling and Underground Space Technology Vol 26, No. 1, 2011, PP 46-50
26. M. Monjezi, M. Ahmadi, M. Sheikhan, A. Bahrami and A.R. Salimi, Predicting blast-induced ground vibration using various types of neural networks - Soil Dynamics and Earthquake Engineering, Vol. 30, No. 11, 2010, PP 1233-1236doi:10.1016/j.soildyn.2010.05.005.
27. M. Monjezi, M. Rezaei and A. Yazdian Prediction of backbreak in open-pit blasting using fuzzy set theory, Expert Systems with ApplicationsVol. 37, No. 3, 15 2010, Pages 2637-2643, doi:10.1016/j.eswa.2009.08.014 |
28. M. Monjezi and M. Rezaei Developing a new fuzzy model to predict burden from rock geomechanical properties, Expert Systems with Applications, Vol. 38, No. 8, 2011, PP 9266-9273
29. M. Monjezi, A. Bahramia and A. Yazdian Varjani, Simultaneous prediction of fragmentation and flyrock in blasting operation using artificial neural networks, International Journal of Rock Mechanics and Mining Sciences, Vol. 47, No. 3, 2010, PP 476-480.
30. M. Rezaei, M. Monjezi and A. Yazdian Varjani, Development of a fuzzy model to predict flyrock in surface mining, Safety Science, Vol. 49, No. 2, 2011, PP 298-305, doi:10.1016/j.ssci.2010.09.004
31. H. Amini , R. Gholami , M. Monjezi , S. R. Torabi and J. Zadhesh, Evaluation of flyrock phenomenon due to blasting operation by support vector machine Article in Press, Neural Computing & Applications, DOI 10.1007/s00521-011-0631-5.
32. A. Bahrami, M. Monjezi, K. Goshtasbi and A. Ghazvinian, Prediction of rock fragmentation due to blasting using artificial neural network, Engineering with Computers (2011) 27:177–181
33. M. Monjezi , A. Bahrami, A. YazdianVarjani Simultaneous prediction of fragmentation and flyrock in blasting operation using artificial neural networks, International Journal of Rock Mechanics & Mining Sciences 47 (2010) 476–480.
34. M. Monjezi& Amir Bahrami& Ali YazdianVarjani& Ahmad Reza Sayadi Prediction and controlling of flyrock in blasting operation using artificial neural network, Arab J Geosci (2011) 4:421–425.
35. M. Monjezi, M. Hasanipanah and M. Khandelwal, Evaluation and prediction of blast-induced ground vibration at Shur River Dam, Iran, by artificial neural network, Neural Computing & Application, (2013), 22:1637-1643, DOI 10.1007/s00521-012-0856-y.

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37. M. Monjezi K. Shahriar H. Dehghani and F. SamimiNamin, Environmental impact assessment of open pit mining in Iran, *Environ Geol* (2009) 58:205–216, DOI 10.1007/s00254-008-1509-4
38. A. Khodadadi, M. Monjezi, H. Mehrpouya and H. Dehghani, Geochemical modeling of cyanide in tailing dam gold processing plant, *Environmental Geology*, Vol. 58, Number 6, September 2009 , pp. 1161-1166(6).
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40. M. Monjezi& S. M. Hesami& M.Khandelwal, Superiority of neural networks for pillar stress prediction in bord and pillar method, *Arab J Geosci* (2011) :845–853, DOI 10.1007/s12517-009-0101-x.
41. M. Monjezi, A. Mehrdanesh, A. Malek and M.Khandelwal, Evaluation of effect of blast design parameters on flyrock using artificial neural networks, *Neural Comput&Applic* (2013), 23:349-356, DOI 10.1007/s00521-012-0917-2.
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48. Landslide Risk Assessment Using Fuzzy-TOPSIS Method, *Indian Landslides. Study of the Effect of Rainfall on Slope Stability- A Numerical Approach*, *Indian Landslides*.
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53. S. R. Torabi, H. Shirazi, H. Hajali and M. Monjezi, Study of the influence of geotechnical parameters on the TBM performance in Tehran-Shomal highway project using ANN and SPSS, *Arab. J. Geosci.* (2013) 6:1215–1227, DOI 10.1007/s12517-011-0415-3.
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61. B. Gordan, D. J. Armaghani, M. Hajihassani, M. Monjezi, Prediction of seismic slope stability through combination of particle swarm optimization and neural network, *ENGINEERING WITH COMPUTERS*, Vol. 32, Issue 1, pp 85–97 (2016).
62. M. Saadat, M. Khandelwal & M. Monjezi, ANN-based approach to predict blast-induced ground vibration of Gol-E-Gohar iron ore mine, Iran, *Journal of Rock Mechanics and Geotechnical engineering*, Vol. 6, Issue 1, February 2014, Pages 67–76 (2013).
63. E. Tajvidi, M. Monjezi, O. Asghari & S. Foroughi, Application of joint conditional simulation to uncertainty quantification and resource classification, *ARABIAN JOURNAL OF GEOSCIENCES*, Vol. 6, Issue 1, February 2014, Pages 67–76 (2014).
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65. M. Mohtasham Seyfi, J. Khademi Hamidi, M. Monjezi and A. Hosseini, (2018) Estimation of coal seams gas content for evaluating potential use of methane drainage system in Tabas coal mine, *Journal of Mining & Environment*, Vol. 9, No. 3, 2018, 667-677, DOI: 10.22044/jme.2018.6783.1501.
66. R. Sh. Faradonbeh & M. Hasanipanah, H. Bakhshandeh Amnieh, D. J. Armaghani & M. Monjezi, (2018) Development of GP and GEP models to estimate an environmental issue induced by blasting operation, *ENVIRONMENTAL MONITORING AND ASSESSMENT*.

67. P. Faraji Asl, M. Monjezi, J. Khademi Hamidi & D. J. Armaghani, (2018) Optimization of flyrock and rock fragmentation in the Tajareh limestone mine using metaheuristics method of firefly algorithm, ENGINEERING WITH COMPUTERS, Vol. 34, No. 2.
68. A. Mehrdanesh, M. Monjezi, A. R. Sayadi (2018), Evaluation of effect of rock mass properties on fragmentation using robust techniques, ENGINEERING WITH COMPUTERS, Vol. 34, No. 2.
69. A. Salimi, R. Sh. Faradonbeh, M. Monjezi & Ch. Moormann, (2018), TBM performance estimation using a classification and regression tree (CART) technique, Bulletin of Engineering Geology and the Environment, Vol. 77, No. 1.

Research Projects

1- Optimization of Explosive Consumption in Mining of Sangan Iron Ore Mine