

CURRICULUM VITAE



Personal Information:

Name: Reza
Last name: Mikaeil
Gender: Male
Marital status: Married
Date of birth: 1980
Place of birth: Amol, Mazandaran, Iran
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Addresses:

University : *Department of Mining and Metallurgical Engineering, Urmia University of Technology, Band Road, Urmia, Iran*
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Interested research areas and subjects:

- **Sawing**
 - Evaluation of rock sawability
 - Prediction of sawing rate
 - Assessment of rock sawability
 - Evaluation and prediction of tool wear

Academic Education:

- Ph.D studies, 2007-now:

I have started my Ph.D. studies in September 2007 in Faculty of Mining Engineering, Petroleum & Geophysics, at Shahrood University of Technology. The title of thesis is “Development of New Classification System for Assessing the Dimensional Stones Sawability and Optimization of Sawing Parameters “ under supervision of Dr. M. Ataei and Dr. Uosefi.

- M.Sc. studies, 2004 - 2007:

In Faculty of Mining Engineering, Petroleum & Geophysics, at Shahrood University of Technology in summer 2006. The title of thesis was “Stability Analyses and Permanent Lining Design of Kuhin Railway Tunnel “ under supervision of Dr. M. Ataei and Dr. Ferdowsi.

- Undergraduate studies, 2000 - 2004:

In Faculty of Mining Engineering at Sahand University of Technology, Tabriz. The title of B.Sc project was “Investigation of diamond tools“ under supervision of Dr. H. Aghababaei.

Language Skills:

Persian (Iranian official language)
English Fair (TOLIMO Score: 470)

Teaching Experiences:

- Teaching assistantship at Shahrood University of Technology, 2006-present. lessons;
 - Underground mining
 - Rock Mechanics Laboratory
 - Designing of supports in mines
 - Principles of open pit mine designing

Memberships:

- Member of Iranian Society of Mining Engineering
- Member of Iranian Mining Engineering Organization

Awards and Distinctions:

- **1st Top Researcher Student** of School of Mining, Petroleum & Geophysics, Shahrood University of Technology, 2009.
- **Selected as the "Superior Talent"** at Shahrood University of Technology, 2008.
- **2nd Top Researcher Student** of Shahrood University of Technology, 2008.
- **3rd Top Researcher Student** of Shahrood University of Technology, 2007.
- **Outstanding student among the M.Sc. & Ph.D. students** of Shahrood University of Technology, 2007 & 2008.
- **Outstanding student** in Faculty of Mining Engineering, Petroleum & Geophysics, Shahrood University of Technology, 2006 & 2007.

Workshops:

- **S. H. Hoseinie**, "Flac2D Software", Faculty of Mining Engineering, Sahand University of Technology, 2008.

Research Projects:

- **Investigation of Texture Effects on Engineering Properties of Rocks**
By: M. Ataei, S.H. Hoseinie, **R. Mikaeil**. At: Shahrood University of Technology (summer and autumn of 2008).
- **Modification of Schimazek's abrasivity index in order to improvement of its applications in rock engineering**
By: M. Ataei, **R. Mikaeil**, S.H. Hoseinie. At: Shahrood University of Technology (winter and spring of 2009).
- **Development of a fuzzy classification for assessing of rock mass drillability**
By: R. Khalokakaei, M. Ataei, **R. Mikaeil**, S.H. Hoseini. At: Shahrood University of Technology (autumn 2009 and winter 2010).

Papers:

- ISI Journals

- **R. Mikaeil**, M. Ataei, S.H. Hoseinie, "**Predicting the production rate of diamond wire saws in carbonate rocks cutting**", *Industrial Diamond Review(IDR)*. 2008/3, 28-34.
- M. Zare Naghadehi, **R. Mikaeil**, M. Ataei. **The Application of Fuzzy Analytic Hierarchy Process (FAHP) Approach to Selection of Optimum Underground Mining Method for Jajarm Bauxite Mine, Iran**. *Expert Systems with Applications* 36 (2009) 8218–8226.

- **R. Mikaeil**, M. Zare Naghadehi, F. Sereshki. *Multifactorial Fuzzy Approach to the Penetrability Classification of TBM in Hard Rock Conditions*. *Tunnelling and Underground Space Technology* Vol. 24 (2009), p. 500–505.
- **Reza Mikaeil**, M. Zare Naghadehi, Mohammad Ataei, Reza Khalokakaie. *A Decision Support System Using Fuzzy Analytical Hierarchy Process (FAHP) and TOPSIS Approaches for Selection of the Optimum Underground Mining Method*. *Archives of Mining Sciences*. Vol. 54 (2009), No 2, p. 341–368.
- S.H. Hoseinie, M. Ataei, **R. Mikaeil**, "Influence of Textural Characteristics on Drillability of Rocks", *Industrial Diamond Review (IDR)*, (accepted for publication).
- M. Ataei, **R. Mikaeil**, F. Sereshki, N. Ghaysari. *Predicting the production rate of diamond wire saw using statistical analysis*. *Arabian Journal of Geosciences*. 2011.
- **R. Mikaeil**, R. Yousefi, M. Ataei, R. Abasian Farani, 2011. *Development of a New Classification System for Assessing of Carbonate Rock Sawability*, *Archives of Mining Sciences*, Vol. 56 (2011), No 1, p. 57–68.
- **R. Mikaeil**, M. Ataei, R. Yousefi. *Correlation of production rate of ornamental stone with rock brittleness indexes*. *Arabian Journal of Geosciences*. 2011.
- **Mikaeil R.**, Yousefi R., Ataei M., 2011, "Sawability Ranking of Carbonate Rock Using Fuzzy Analytical Hierarchy Process and TOPSIS Approaches". *Scientia Iranica, Transactions B: Mechanical Engineering* 18 (2011) 1106–1115.
- **Mikaeil R.**, OZELIK Y., Ataei M., Yousefi R., *CORRELATION OF SPECIFIC AMPERE DRAW WITH ROCK BRITTLENESS INDEXES IN ROCK SAWING PROCESS*. *Arch. Min. Sci.*, Vol. 56 (2011), No 4, p. 741–752.
- **Mikaeil R.**, Ataei M., Yousefi R., 2011. "The application of a fuzzy analytical hierarchy process to the prediction of vibration during rock sawing". *Mining Science and Technology (China)* 21 (2011) 611–619.

- Iranian and International Journals

- **R. Mikaeil**, B. Ferdowsi, M. Ataei, F. Hassani, 2008. *Comparison of Penzien and Wang analytical methods with the finite difference numerical method in seismic analyses of the Qazvin-Rasht (Kuhin) tunnel*. *CIM Bulletin* Vol. 101, N° 1108
- S. H. Hoseinie, M. Ataei, **R. Mikaeil**, "Comparison of Famous Rock Hardness Scales Applied in Drillability Studies", *Journal of Asian Earth Sciences*, (Under Review).
- R. Khalokakaie, M. Ataei, **R. Mikaeil**, S. H. Hoseinie, "A Fuzzy Logic Based Classification for Assessing of Rock Mass Drillability", *Arabian Journal of Geosciences*, (Under Review).

- Conferences

- M. Ataei, **R. Mikaeil**, S. H. Hoseinie, R. Yousefi "Correlation of Cutting Rate with Abrasivity Parameters of Ornamental Stones", *MERSEM-07 International Marble and Natural Stone Congress, Afyonkarahisar, Turkey, 14-15 October 2010 (Under review)*.

- **R. Mikaeil**, M. Ataei, S. H. Hoseinie, (2009), "**Influence of textural characteristics on uniaxial compressive strength of rocks**", 6th Iranian Conference on Engineering Geology and the Environment, October.
- **R. Mikaeil**, S. H. Hoseinie, M. Ataei, (2008), "**Abrasivity and sawability prediction of Khalkhal and Azarshahr Travertine**", 8th International Scientific Conference on Modern Management of Mine Producing and Environmental Protection (SGEM), Albena Complex, Bulgaria .
- F. Doulati Ardejani, R.N. Singh, M. Ataei, **R. Mikaeil**, 2007. **Prediction of Groundwater Inflow into Underground Mines using Analytical and Numerical Models**. International Conference on Coal Science and Technology.
- M. Ataei, **R. Mikaeil**, 2007. **THE ESTIMATION OF OPTIMUM RATE OF POSSIBLE ROUTES FOR TRANSPORTATION SYSTEM IN CHADOR-MALU IRON ORE MINE**. Proceedings of the 7th International Scientific Conference SGEM. Bulgaria
- **R. Mikaeil**, Omid Frough, Reza KhaloKakaie, Mohammad Ataei, **Prediction of TBM Penetration Rate with Generalized Regression Neural Network in Hard Rock Condition**, 8th International Congress on Civil Engineering, Shiraz , 2009
- H. Mirzaei, **R. Mikaeil**, S. Balideh, A. Salemi. **Stability analysis of underground structures using the element – free galerkin method**. 2nd international conference on computational methods in tunneling, 9-11 september 2009, 1053-1060
- R. Yousefi, **R. Mikaeil**, M. Ataei, 2010. **Study of Factors Affecting on the Sawability of the Ornamental Stone**. Proceedings of the 8th International Scientific Conference SGEM. Bulgaria.