

# **CURRICULUM VITAE**

## **JAFAR KHADEMI HAMIDI, Ph.D.**

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### **SUMMARY OF EXPERIENCE**

Jafar Khademi Hamidi received his PhD degree in Mining Engineering from Amirkabir University of Technology (Tehran Polytechnic) in January 2011 with dissertation entitled "A model for hard rock TBM performance prediction". As a PhD student in Tehran Polytechnic, he was a recipient of several competitive awards that include honored and top-rank recognition student, selected young researcher, sabbatical opportunity and INEF awards. He worked as a consultant in the area of underground construction, mechanical excavation, geotechnical investigations, construction bid preparation, tunneling in difficult ground conditions and longwall coal mine design between 2006 and 2013. He has started faculty job at Tarbiat Modares University (TMU) from spring 2012. Currently, as an Assistant Professor of Mining Engineering and founder of Mechanized Excavation Laboratory in TMU, he is to pursue basic and applied researches in the field of mechanical mining and excavation.

### **RESEARCH INTEREST**

- Underground mining (geotechnical engineering, design and planning, risk analysis)
- Mechanical mining and excavation (rock drillability/cuttability/boreability, design and fabrication of rock cuttability index tests, rock abrasion and tool wear)
- GIS application in underground mining
- Coal mining (panel design, design/selection of coal cutting machines)
- Rock mechanic laboratory testing
- Standardization of mining/tunneling machinery and equipment

### **TEACHING EXPERIENCE (COURSES TAUGHT)**

- Mechanized Excavation (3 credit hours, Graduate)
- Optimization Techniques in Underground Mining (3 credit hours, Graduate)
- Advanced Underground Mining (3 credit hours, Graduate)
- Advanced Tunnel and Shaft Construction (2 credit hours, Graduate)
- Tunnel and Shaft Construction (2 credit hours, Undergraduate)

- Underground Mining (3 credit hours, Undergraduate)

**SUPERVISING GRADUATE STUDENTS**

- Mehdi Mohamadi, PhD student, "Rock cuttability by drag bits under lateral loading", Expected graduation: Summer 2018.
- Mohammad Izadshenas, "Design and fabrication of mini-disc for use in small scale linear rock cutting rig", Expected graduation: Summer 2018.
- Farshid Nazmi, "Assesment of mini-disc cutter performance in small scale rock cutting test", Expected graduation: Summer 2018.
- Abdollah Rastgoo, "Laboratory study of the effect of surface quality on the rock cutting tool wear life", Expected graduation: Summer 2018.
- Kavosh Rostami, "Developing a new laboratory index for rock cuttability assessment", March, 2018.
- Vahid Amini, "Reliability analysis of EPB shield tunneling system using simulation methodes- A case study" February 2018.
- Sajad Alimadad, "Evaluation of rock cuttability in laboratory scale (with design and fabrication of small scale linear rock cutting rig)", February 2017.
- Mobed Mohtasham Seyfi, "Prediction of methane emission potential in Tabas Parvadeh#1 coal mine", February 2017.
- Sasan Heydari, "Analysis of chip size and formation in hard rock cutting process", February 2016.
- Rasoul Faraji Tasuji, "Evaluation of the impact of tool wear on hard rock cutting efficiency", February 2016.
- Yasin Taghavi, "Selection of Appropriate Backfill Method in Angouran Underground Mine", November 2015.
- Vahid Vaziri, "Risk Assessment of Geotechnical Factors in Tabas Mechanized Coal Mine", January 2015.
- Mahmoud Abdollahzadeh, "Optimizing the length of longwall stope in Tabas Coal Mine", February 2014.

**WORKING EXPERIENCES, MEMBERSHIPS AND SERVICES**

- January 2012 to Present: Assistant Professor, Dept. of Mining Engineering, Faculty of Engineering, Tarbiat Modares University.
- 2017 to Present: Board of Directors, Iranian Society of Mining Engineering (IRSME)
- 2017 to Present: Chair of Corresponding Technical Committee for Mining (TC82), Iranian National Standards Organization (ISIRI).
- 2014 to Present: Chair of Corresponding Technical Committee for Solid Mineral Fuels (TC27), Iranian National Standards Organization (ISIRI).
- 2012 to Present: Iranian Tunneling Association (IRTA) and Mechanized Excavation Working Group.
- 2007 to Present: Member of Iranian Mining Engineering Organization (IME).

- 2010 to 2012: Consultant in Tehran Line#7 Metro project, Tehran, Iran.
- 2007 to 2010: Consultant in Zagros (lot#2) long tunnel project, Tehran, Iran.
- Member of Scientific and Executive committee of several national conferences including Rock Mechanics, Tunneling, Mining Engineering.

## RESEARCH PROJECTS

- "*Design and fabrication of small scale rock cutting machine*", Submitted to Research Office of Tarbiat Modares University, 2013-2017.
- "*Design and fabrication of rock cuttability index test apparatus: Cerchar abrasivity test, Punch penetration test, Miniature drill test, S20 rock brittleness test, Abrasion value test*", Young Assistant Professors Research Project, 2015- Present.

## PUBLICATIONS

### Journal Papers

#### A) *International Indexed Journal Papers*

- Mohtasham Seyfi, M., Khademi Hamidi, J., Monjezi, M., Hosseini, A., 2018. "Estimation of coal seams gas content for evaluating potential use of methane drainage system in Tabas coal mine", *Journal of Mining & Environment*, *Article in Press*, DOI: 10.22044/jme.2018.6783.1501.
- Vaziri, V., Khademi Hamidi, J., Sayadi, A.R., 2018. "An Integrated GIS-based Approach for Geotechnical Hazards Risk Assessment in Underground Coal Mines", *Environmental Earth Sciences*, 77:29.
- Faraji Asl, P., Monjezi, M., Khademi Hamidi, J., Jahed Armaghani, D. 2018. "Optimization of flyrock and rock fragmentation in the Tajareh limestone mine using metaheuristics method of firefly algorithm", *Engineering with Computers*, 34 (2): 241–251.
- Bayati, M., Khademi Hamidi, J., 2017. "A case study on TBM tunnelling in fault zones and lessons learned from ground improvement", *Tunnelling and Underground Space Technology*, 63, 162-70.
- Taromi, M., Eftekhari, A., Khademi Hamidi, J., Aalianvari, A. 2017. "*A discrepancy between observed and predicted NATM tunnel behaviors and updating: a case study of the Sabzkuh tunnel*", *Bulletin of Engineering Geology and the Environment*, 76(2): 713–729.
- Jafarimoghaddam, A., Khademi Hamidi, J., Najafi, M. 2013. "*Application of decision tree to selection of MTBM for adverse geological conditions*", *Int. J. Mining Science and Technology*, 23(4), 503-11.
- Khademi Hamidi, J. 2013. "*Comments on the article "Tunnel Boring Machine (TBM) selection using fuzzy multicriteria decision making methods" by Yazdani-Chamzini, A., Haji Yakhchali, S. [Tunneling and Underground Space Technology 30 (2012) 194-204]*" *Tunnelling and Underground Space Technology*, 38, 581-82.
- Bejari, H., Khademi Hamidi, J. 2013. "*Simultaneous Effects of Joint Spacing and Orientation on TBM Cutting Efficiency in Jointed Rock Masses*", *Rock Mechanics and Rock Engineering*, 46, 897-907.

- Cheniany, A., Khoshrou, S.H., Shahriar, K., Khademi Hamidi, J. 2012. "Estimation of penetration rate of rotary drills using Specific Rock Mass Drillability (SRMD) index", Int. J. Mining Science and Technology, 22, 187-193.
- Bejari, H., Kakaie, R., Ataei, M., Khademi Hamidi, J. 2011. "Simultaneous effects of joint spacing and joint orientation on the penetration rate of a single disc cutter", Int. J. Mining Science and Technology, 21(4), 507-12.
- Khademi Hamidi, J., Shahriar, K., Rezai, B., Rostami, J. 2011, "Response by the authors to S. Yagiz discussion to the paper: J. Khademi Hamidi et al. (2010). Performance prediction of hard rock TBM using Rock Mass Rating (RMR) system, Tunnelling and Underground Space Technology, Vol. 25, pp. 333-345", Tunnelling and Underground Space Technology, 26(6), 795-797.
- Khademi Hamidi, J., Shahriar, K., Rezai, B., Rostami, J. 2010. "Performance prediction of hard rock TBM using Rock Mass Rating (RMR) system", Tunnelling and Underground Space Technology, 25 (4), PP. 333-45. **(Hot paper in TUST)**
- Khademi Hamidi, J., Shahriar, K., Rezai, B., Rostami, J., Bejari, H. 2010. "Risk assessment based selection of rock TBM for adverse geological conditions using Fuzzy-AHP", Bulletin of Engineering Geology and the Environment, 69, PP. 523-532.
- Khademi Hamidi, J., Shahriar, K., Rezai, B., Bejari, H. 2010. "Application of fuzzy set theory to rock engineering classification systems- An illustration of Rock Mass Excavability (RME) Index", Rock Mechanics and Rock Engineering, 43 (3), PP. 335-50.
- Shahriar, K., Sharifzadeh, M., Khademi Hamidi, J. 2008. "Geotechnical risk assessment based approach for rock TBM selection in difficult ground conditions", Tunnelling and Underground Space Technology, Vol. 23, No. 3, PP. 318-325. **(Hot paper in TUST)**

### **B) National Indexed Journal Papers with English Abstract:**

- Alimadad, S., Khademi Hamidi, J., Shahriar, K., Mohamadi, M. 2018. "Rock cuttability assessment using small scale linear rock cutting test, Iranian Journal of Mining Engineering (IRJME), Accepted.
- Mikaeil, R., Shirzad, P., Khademi Hamidi, J. 2018. "Selection of hard rock TBM using fuzzy TOPSIS, Rock Mechanics, 1(2), 29-40.
- Safari, V., Monjezi, M., Khademi Hamidi, J. 2018. "Quantification of the Effect of Grade Uncertainty in the Production Planning of Two-Element Deposits", Iranian Journal of Mining Engineering (IRJME), 13(38): 51-65.
- Mohammadi, R., Khademi Hamidi, J., Samimi Namin, F. 2017. "Numerical study of effecting parameters on pressure distribution in contact zone of rock and disc cutter in linear cutting process", Tunneling and Underground Space Engineering, 6(1): 27-42.
- Safari, V., Monjezi, M., Khademi Hamidi, J. 2017. "Grade Estimation in two variable Deposits using hybrid method of Kriging-minimum/maximum Autocorrelation factors", Iranian Journal of Mining Engineering (IRJME), 12(37): 11-20.

- Faraji Tasuji, R., Khademi Hamidi, J., Basiri, M.H., Eftekhari, A. 2017. "Numerical Simulation of Rock Fragmentation with TBM Disc Cutter in Linear Cutting Test", *Tunneling and Underground Space Engineering*, 5(2): 31-48.
- Saghatforoush, A., Monjezi, M., Khademi Hamidi, J. 2017. "Optimization of blasting operation using hybrid neural network-ant colony (Case study: Delkan Iron Mine)", *Journal of Modeling in Engineering*, 15(48), 259-269.
- Taghavi, Y., Khademi Hamidi, J., Sayadi, A.R. 2016. "*Evaluation of Rock Mass Quality in Underground Section of Anguran Mine Using Geostatistical Analyst in GIS Environment*", *Engineering Journal of Geospatial Information Technology*, 4(1):83-101.
- Saghatforoush, A., Monjezi, M., Khademi Hamidi, J. 2016. "Optimization of Blasting Operation Using Hybrid Neural Network-Ant Colony (Case Study: Delkan Iron Mine)", *Journal of Modeling in Engineering*, Accepted for publication.
- Vaziri, V., Khademi Hamidi, J., Sayadi, A.R. 2016. "*Classification of Coal Mine Roof Using Geostatistical Analyst and GIS*", *Iranian Journal of Mining Engineering (IRJME)*, Vol. 11, No. 30, 51-62.
- Abdolahzadeh, M., Khademi Hamidi, J., Monjezi, M. 2014. "*Modeling the effect of stope length of longwall miningon stress distribution (Case study: Tabas Coal Mine, Parvadeh No. 1)*", *Iranian Journal of Mining Engineering (IRJME)*, Vol. 9, No. 24, 17-28.
- Najafzadeh, M., Sayadi, A.R., Khademi Hamidi, J. 2014. "Preliminary Construction Cost Estimation for Short Tunnels in Fair to Good Rock Mass Conditions", *Tunneling and Underground Space Engineering (TUSE)*, Vol. 3, No. 1, 77-85.

## Conference Papers

### A) International Conference Papers

- Narimani Dehnavi, R., Shamsaddini, A., Koohsari, A., Rezaei, A.A., Khademi Hamidi, J. (2017), "Challenges of excavation through mixed-face grounds by hard rock TBMs: the case study of Kerman water conveyance tunnel", 3rd International Conference on Tunnel Boring Machines in Difficult Grounds (TBM DiGs), Wuhan, China.
- Faraji Tasuji, R., Khademi Hamidi, J., Basiri, M.H. (2017), "Influence of disc cutter wear on cutting performance in hard rock TBMs- A numerical study", 3rd International Conference on Tunnel Boring Machines in Difficult Grounds (TBM DiGs), Wuhan, China.
- Heidari, S., Khademi Hamidi, J., Monjezi, M., Eftekhari, A. (2017), "Estimation of TBM performance due to the muck shape and size – A case study of Golab II water transfer tunnel", ITA–AITES World Tunnel Congress 2017, Bergen, Norway.
- Faraji Tasuji, R., Khademi Hamidi, J., Basiri, M.H. (2016), "Numerical simulation of rock fragmentation process in full scale linear cutting test", 2nd International Conference on Tunnel Boring Machines in Difficult Grounds (TBM DiGs), Istanbul, Turkey.
- Bayati, M., Taherian, A., Khademi Hamidi, J. (2016), "Study on groundwater inflow to a TBM driven tunnel-a case study from Zagros water conveyance tunnel", 2nd International Conference on Tunnel Boring Machines in Difficult Grounds (TBM DiGs), Istanbul, Turkey.

- Khademi Hamidi, J., Goshtasbi, K., Molla, A. (2016), "Field study on the effect of soil conditioning on EPB shield operational parameters in Tehran Line 7 metro project", 13<sup>th</sup> Int. Conf. Underground Construction and 3<sup>rd</sup> Eastern European Tunnelling Conference, Prague, Czech.
- Vaziri, V., Khademi Hamidi, J., Sayadi, A.R. (2015), "Estimation of Coal Gas Content Using Geostatistical Methods in GIS Environment: A Case Study From Tabas Coal Mine", 24<sup>th</sup> International Mining Congress of Turkey, Antalya, Turkey.
- Sayadi, A.R., Khademi Hamidi, J., Rahimi, M.A. (2015), "Estimating the Energy Costs of Mine Equipment Using an Information System", 24<sup>th</sup> International Mining Congress of Turkey, Antalya, Turkey.
- Hedayatzadeh, M., Dođruöz, C., Rostami, J., Khademi Hamidi, J. (2015), "Analysis of Impacts of Ground Condition on Performance of a Hard Rock TBM in Alborz Service Tunnel Project", 24<sup>th</sup> International Mining Congress of Turkey, Antalya, Turkey.
- Taromi, M; Eftekhari A; Khademi Hamidi J. (2014), "Evaluation of Geological Model in Construction Process of Sabzkuh Tunnel (Case Study in Iran)", 12<sup>th</sup> IAEG Congress, Turin, Italy.
- Hedayatzadeh, M.; Khademi Hamidi, J. (2014), "Use of Rock Mass Fabric Index in Fuzzy Environment for TBM Performance Prediction", 12<sup>th</sup> IAEG Congress, Turin, Italy.
- Sayadi, A.R., Khademi Hamidi, J., Monjezi M., Najafzadeh, M. (2014), "A Preliminary Cost Estimation for Short Tunnels Construction Using Parametric Method", 12<sup>th</sup> IAEG Congress, Turin, Italy.
- Khademi Hamidi, J., Bejari, H. 2013. "*Rock Mass Classification Systems: Are They Applicable to Prediction of TBM Performance*", 3<sup>rd</sup> International Symposium on Underground Excavations for Transportation, Istanbul, Turkey.
- Gholami, M.; Shahriar, K.; Khademi Hamidi, J. (2011), "*Predicting hard rock TBM performance using a multiple regression analysis of RMR classification system*", 45<sup>th</sup> US Rock Mechanics/Geomechanics Symposium, (ARMA2011), San Francisco, USA.
- Shahriar, K.; Khademi Hamidi, J.; Hedayatzadeh, M. (2011), "*Use of GSI classification system in performance prediction of hard rock TBMs*", 22<sup>nd</sup> World Mining Congress & Expo, Istanbul, Turkey.
- Shahriar, K.; Khademi Hamidi, J.; Cheninay, A. (2011), "*Estimation of penetration rate of rotary drills using Specific Rock Mass Drillability (SRMD) index*", 22<sup>nd</sup> World Mining Congress & Expo, Istanbul, Turkey.
- Hedayatzadeh, M.; Shahriar, K.; Khademi Hamidi, J. (2011), "*A fuzzy logic model to predict the performance of hard rock tunnel boring machine*", 1<sup>st</sup> Asian and 9<sup>th</sup> Iranian Tunneling Symposium, Tehran, Iran.
- Khademi Hamidi, J.; Rostami, J.; Shahriar, K.; Rezai, B. (2010) "*Prediction of TBM advance rate; A comparative study of RME classification index and fuzzy logic*", International Mining Congress and Expo, Tehran, Iran.
- Rostami, J.; Khademi Hamidi, J.; Bayati, M. (2010), "*Review of TBM Utilization and Impact of Difficult Ground Conditions in Zagros Water Conveyance Tunnel*" ITA–AITES World Tunnel Congress 2010 and 36<sup>th</sup> ITA–AITES General Assembly, Vancouver, Canada.

- Shahriar, K.; Sargheini, J.; Hedayatzadeh, M.; Khademi Hamidi, J. (2010), “*Performance prediction of hard rock TBM using rock mass classification*” Eurock 2010, Switzerland.
- Hedayatzadeh, M.; Shahriar, K.; Khademi Hamidi, J. (2010), “*An artificial neural network model to predict the performance of hard rock TBM*”, 6<sup>th</sup> Asian Rock Mechanics Symposium, New Delhi, India.
- Bejari, H.; Shahriar, K.; Khademi Hamidi, J.; Akbarpour M. (2010), “*Optimal tunneling method selection using fuzzy multiple attribute decision making technique*” 6<sup>th</sup> Asian Rock Mechanics Symposium, New Delhi, India.
- Cheniany, A.; Khoshrou, S.H.; Shahriar, K.; Khademi Hamidi, J. (2010), “*Estimation of penetration rate of rotary drills using a new drillability index in Sarcheshmeh Copper Mine*”
- Khademi Hamidi, J.; Shahriar, K.; Rostami, J. (2009), “*Double Shield TBM in Challenging Difficult Ground Conditions- A Case Study from Zagros Water Transfer Tunnel, Iran*”, Rapid Excavation and Tunnelling Conference (RETC), Las Vegas, Nevada, USA.
- Shahriar, K.; Rostami, J.; Khademi Hamidi, J. (2009), “*TBM Tunneling and Analysis of High Gas Emission Accident in Zagros Water Transfer Tunnel*”, ITA–AITES World Tunnel Congress 2009 and 35<sup>th</sup> ITA–AITES General Assembly, Budapest, Hungary.
- Bejari, H.; Khademi Hamidi, J. (2009), “*Simultaneous effects of joint spacing and orientation on the penetration rate of TBM using numerical modeling*” SINOROCK2009, Hong Kong.
- Khademi Hamidi, J.; Shahriar, K.; Bejari, H. (2008), “*Geotechnical risk based decision-making for selection of rock TBM in difficult ground conditions using fuzzy AHP*”, 5<sup>th</sup> Asian Rock Mechanics Symposium, ARMS 5, Tehran, Iran.
- Khademi Hamidi, J.; Bejari, H.; Shahriar, K. (2008), “*Assessment of Ground Squeezing and Ground Pressure Imposed on TBM Shield*”, 12<sup>th</sup> International Conference of International Association for Computer Methods and Advances in Geomechanics, Goa, India.
- Khademi Hamidi, J.; Shahriar, K.; Rezai, B. (2007), “*Fuzzy set theory for selection of tunneling technique using Rock Mass Excavability (RME) Indicator*”, 2<sup>nd</sup> Symposium on Underground Excavation for Transportation, Istanbul, Turkey.
- Shahriar, K.; Khademi Hamidi, J.; Bejari, H. (2007), “*Assessment of ground squeezing and TBM jamming potential in Nosoud water transfer tunnel*”, 2<sup>nd</sup> Symposium on Underground Excavation for Transportation, Istanbul, Turkey.
- Khademi Hamidi, J.; Shahriar, K.; Sharifzadeh, M. (2006), “*A methodology for rock TBM selection based on geotechnical hazards mitigation*”, 8<sup>th</sup> Regional Rock Mechanics Symposium, Istanbul, Turkey.

### ***B) National Conference Papers with English Abstract***

- Mohtasham Seyfi, M.; Khademi Hamidi, J.; Monjezi, M.; Hosseini, A. (2018), “*Estimation of coal seams gas content in Tabas coal mine in Arc GIS with the aim of using drainage systems*”, 4<sup>th</sup> National Iranian Coal Congress, Tabas, Iran.
- Mohamadi, M.; Khademi Hamidi, J.; Rostami, J.; Goshtasbi, K. (2017), “*Study on the effect of rock cutting groove deepening on drag bit performance in mechanized excavation*”, 3<sup>rd</sup> Regional and 12<sup>th</sup> Iranian Tunneling Conference, Tehran, Iran.

- Amini, V.; Khademi Hamidi, J.; Monjezi, M.; Fasihi, E. (2017), "Performance evaluation of the EPB shield tunneling system with and without external factors- A case study; Tehran metro Line 6", 3<sup>rd</sup> Regional and 12<sup>th</sup> Iranian Tunneling Conference, Tehran, Iran.
- Alimadad, S.; Khademi Hamidi, J.; Shahriar, K.; Mohamadi, M. (2016), "Rock cutting force measurement with design and fabrication of small scale linear cutting machine", 6<sup>th</sup> Iranian Rock Mechanics Conference, Tehran, Iran.
- Faraji Tasuji, R., Khademi Hamidi, J., Basiri, M.H. (2016), "Performance comparison of CCS and V-shaped disc cutters in numerical simulation of rock cutting ", 6<sup>th</sup> Iranian Rock Mechanics Conference, Tehran, Iran.
- Heidari, S., Khademi Hamidi, J., Monjezi, M., Eftekhari, A. (2016), "TBM performance analysis using the muck size and shape", 6<sup>th</sup> Iranian Rock Mechanics Conference, Tehran, Iran.
- Fazelnia, S.P.; Khademi Hamidi, J.; Monjezi, M.; Frough, O. (2015), "Reliability analysis of EPB shield in Tehran Line 7 Metro Project", 2<sup>nd</sup> Regional and 11<sup>th</sup> Iranian Tunneling Conference, Tehran, Iran.
- Molla, A.; Goshtasbi, K.; Khademi Hamidi, J. (2015), "Impact of soil conditioning on EPB shield operational factors in North-South section of Tehran Line 7 Metro Project", 2<sup>nd</sup> Regional and 11<sup>th</sup> Iranian Tunneling Conference, Tehran, Iran.
- Vaziri, V.; Khademi Hamidi, J.; Sayadi, A.R. (2014), "Coal mine roof rating of Tabas mechanized mine using CMRR", 5<sup>th</sup> Iranian Mining Engineering Conference, Tehran, Iran.
- Vaziri, V.; Khademi Hamidi, J.; Sayadi, A.R. (2014), "Investigating the impact of fault zones on mining trend in Tabas coal mine using Geographic Information System (GIS)", 1<sup>st</sup> Mining Sciences Conference, Sari, Mazandaran, Iran.
- Vaziri, V.; Hosseini, A.; Golzar, M.; Khademi Hamidi, J. (2014), "Study on displacement of W3 intersection walls and roof and remediation measures in Tabas Coal Mine", 2<sup>nd</sup> National Coal Congress, Kerman, Iran.
- Khademi Hamidi, J.; Taromi, M.; Eftekhari, A.; Zarifpou, R. (2014), "Selecting and updating excavation and support class according to ground conditions (Case study in Sabzkuh tunnel)", 5<sup>th</sup> Iranian Rock Mechanics Conference, Tehran, Iran.
- Hasheminasab, F.; Monjezi, M.; Khademi Hamidi, J. (2013), "Estimation of rock drillability using rock mass fabric index in Angouran Zinc and Lead Mine" 1<sup>st</sup> international Conference on Mining, Mineral Processing, Metallurgical and Environmental Engineering, Zanjan, Iran.
- Ranjbar, M.; Mehdinejad, H.; Khademi Hamidi, J. (2011), "Impact of geological parameters and geotechnical hazards in selection of tunneling machine", 1<sup>st</sup> Asian & 9<sup>th</sup> Iranian Tunneling Conference, Tehran, Iran.
- Gholami, M.; Shahriar, K.; Khademi Hamidi, J. (2011), "Prediction of hard rock TBM performance using regression analysis on RMR classification system", 4<sup>th</sup> Iranian Rock Mechanics Conference, Tehran, Iran.
- Hedayatzadeh, M.; Shahriar, K.; Khademi Hamidi, J. (2011), "Prediction of TBM penetration rate using rock mass fabric index", 4<sup>th</sup> Iranian Rock Mechanics Conference, Tehran, Iran.



- Bejari, H.; Khademi Hamidi, J.; Ataei M. (2009), "*Determination of optimum spacing for TBM disc cutters in continuous and discontinuous medias using numerical modeling-A case study*", 8<sup>th</sup> Iranian Tunneling Conference, Tehran, Iran.
- Eftekhari, A.; Khademi Hamidi, J. (2009), "*Geological hazards in TBM tunneling- A case study from Zagros long tunnel*", 8<sup>th</sup> Iranian Tunneling Conference, Tehran, Iran.
- Khademi Hamidi, J.; Shahriar, K.; Akbarpour Shirazi, M.; TorkamaniGhotb, A. (2007), "*Application of fuzzy sets in Rock Mass Excavability index for selection of tunneling technique*", 3<sup>rd</sup> Rock Mechanics Conference, Tehran, Iran.
- Sharifzadeh, M.; Torkamani Ghotb, A.; Khademi Hamidi, J.; Hemmati Shaabani, A. (2007), "*Influence of fault and crushed zones on TBM jamming in Ghomroud water transfer tunnel*", 3<sup>rd</sup> Iranian Rock Mechanics Conference, Tehran, Iran.
- Shahriar, K.; Sharifzadeh, M.; Khademi Hamidi, J. Haddadi, M.R. (2006), "*Selection of rock TBM based on geotechnical hazards mitigation*", 7<sup>th</sup> Iranian Tunneling Conference, Tehran Iran.
- Khademi Hamidi, J.; Faghihi, S. (2006), "*Investigating the impact of rock mass characteristics in blast induced over-break in underground construction- A case study from Emamzadeh Hashem Tunnel*", 7<sup>th</sup> Iranian Tunneling Conference, Tehran Iran.

#### Book Translation:

Maidel B., Herrenknecht, M., and Lother A., "*Mechanized Shield Tunneling*", Ernest and Sons Publication, P428, Translated by, Sharifzadeh M., Khademi Hamidi, J., and Torkamani Ghotb, A., Amirkabir University Publication (Tehran Polytechnic), P.524, ISBN: 978-964-8737-79-0, 2007.

#### JOURNAL REVIEWER EXPERIENCE

##### International Journals

- Tunnelling and Underground Space Technology (TUST)
- Bulletin of Engineering Geology and the Environment
- Neural Computing and Applications
- International Journal of Mining Science and Technology
- Arabian Journal of Geosciences
- Journal of Mining and Environment
- Mathematical Problems in Engineering
- Journal of Mining and Metallurgy

##### National Journals

- Iranian Journal of Mining Engineering
- Tunneling and Underground Space Engineering (TUSE)
- Sharif Journal of Civil Engineering

- Amirkabir Journal
- Rock Mechanics Journal
- Journal of Civil and Environmental Engineering (Tabriz University)
- Journal of Analytical and Numerical Methods in Mining Engineering
- Journal of Petroleum Geomechanics
- Journal of Mineral Resources Engineering (JMRE)