HADI FARHADIAN, PHD

University of Birjand
Faculty of Engineering
Department of Mining

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Curriculum Vitae

Last Update: August 2026

GENERAL INFORMATION

Hadi Farhadian
University Lecturer
Researcher

DATE OF BIRTH	09 January 1985
NATIONALITY	Iranian
CURRENT POSITION	Associate Professor at University of Birjand
LANGUAGE SKILLS	Persian and English
ORCID	0000-0002-9948-0731
RESEARCHERID	L-8274-2017
LINKEDIN	https://www.linkedin.com/in/farhadian
GOOGLE SCHOLAR	https://scholar.google.com/citations?user=hjRSCzQAAAAJ&hl=en
ORCID	https://orcid.org/0000-0002-9948-0731
RESEARCHGATE	https://www.researchgate.net/profile/Hadi-Farhadian

RESEARCH PROFILE

Associate Professor of Mining Engineering with research expertise in rock mechanics, geomechanical and numerical modeling, tunneling, fractured-rock hydrogeology, geostatistics, and data-driven engineering methods. My research focuses on understanding and modeling the mechanical and hydraulic behavior of rock masses, particularly fractured rock, and its implications for underground engineering and mining. My work includes tunnel inflow and groundwater modeling, geological and geomechanical hazard assessment, rockburst and squeezing, rock-mass characterization, and geostatistical modeling. More recently, I have integrated machine learning and explainable AI with numerical and geomechanical approaches for engineering prediction and decision-making.

RESEARCH AREAS

- Rock Mechanics and Geomechanics
- Numerical and Geomechanical Modeling
- Fractured-Rock Hydrogeology
- Tunneling and Underground Engineering
- Rock-Mass Characterization
- Geostatistics and Spatial Modeling
- Geological and Geomechanical Hazard Assessment
- Mining Engineering and Mineral Exploration
- Machine Learning and Explainable AI for Engineering Applications

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ACADEMIC EDUCATION

SEP 2011- FEB 2016	**PhD.**, Mining Engineering in Exploration, Department of Mining and Metallurgical Engineering, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran. (GPA 18.21 on scale of 20) ***Thesis:*** **Tunnel Inflow Assessment in Fractured Media** *Supervisor*: A/Prof. Dr. Homayoon Katibeh
SEP 2014- JUN 2015	**Visiting scholar**, Institute of Geology and Paleontology, Applied and Environmental Geology, University of Basel, Basel, Switzerland. Supervisor: Prof. Peter Huggenberger
SEP 2007- DEC 2009	**MSc.**, Mining Engineering in Exploration, Department of Mining and Metallurgical Engineering, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran. (GPA 17.55 on scale of 20) ***Thesis:*** **Evaluation of groundwater flow into Amirkabir tunnel** *Supervisor:* A/Prof. Dr. Homayoon Katibeh
SEP 2003- JUL 2007	**BSc.**, Mining Engineering in Exploration, Department of Mining, University of Birjand, Iran. (GPA 16.74 on scale of 20) **Thesis: Coal Engineering**
SEP 1999- SEP 2003	NODET (National Organization for Development of Exceptional Talents), **High School Diploma**, Mathematics and Physics. (GPA 18.21 on scale of 20)

EMPLOYMENT

OCT 2017- PRESENT	Faculty member at the University of Birjand, Birjand, Iran (https://cv.birjand.ac.ir/hfarhadian/en)
JUN 2020- AUG 2022	Director in Innovation & Entrepreneurship Center at the University of Birjand, Iran
MAR 2021- AUG 2022	Member of "committee of applied and technological projects affairs", University of Birjand
JUN 2020- AUG 2022	Secretary of the Council/Special Assistant to the Strategy of Innovation and Accelerating Center at the University of Birjand
NOV 2019- AUG 2022	Member of "committee of entrepreneurship affairs", University of Birjand
DEC 2019-	Director in Training Management Center & Job Counseling at the University of

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JUN 2020 Birjand, Iran

MAY 2017-SEP 2017 Research assistance at University of Basel, Basel, Switzerland

HONORS & AWARDS

2026 Selected faculty representative from Iranian universities for the international BRICS+ Tech Policy Practice Program; completed specialized training in Science and Technology Park Governance and Cross-Border Innovation Cooperation, with field visits to leading technology parks, incubators, accelerators, and knowledge-intensive technology companies. Beijing, China

2011- 2016 Top Student during the PhD studies, Amirkabir University of Technology, Tehran, Iran

2011- 2016 Academic Scholarship during the PhD studies, Amirkabir University of Technology, Tehran, Iran

2011 2nd Rank, National Entrance Examination for PhD studies

2007- 2009 Academic Scholarship, MSc, Amirkabir University of Technology, Tehran, Iran

2003- 2007 Top Student, BSc, University of Birjand, Birajnd, Iran

2003 Honor Student, 2nd rank, Young Scholars of Mathematics Conference, Mashhad, Iran

PROFESSIONAL SERVICES

Reviews for international scientific journals (available on Publons)
International Journal of Mining Science and Technology; Tunnelling and Underground Space Technology; International Journal of Rock Mechanics and Mining Sciences; Engineering Geology, Environmental Earth Sciences, Hydrogeology Journal; Bulletin of Engineering Geology and the Environment; Geomatics, Natural Hazards and Risk; Groundwater; Marine Geophysical Research; Quarterly Journal of Engineering Geology and Hydrogeology; Arabian Journal of Geosciences; Journal of Mountain Science; Geosciences; Ore and Energy Resource Geology; Eurasian Journal of Soil Science

SKILLS

- **Groundwater Modeling**: Numerical Modeling, Analytical Modeling, COMSOL, UDEC, 3DEC, Seep/W 2D&3D, MODFLOW
- **Geology & Mine Planning:** GEOVIA Surpac, Datamine
- **Statistical Modeling**: Multiple Regression Analysis, SPSS, Table Curve 2D&3D
- **Predictions Modeling**: Artificial Neural Networks, Radial Basis Function Networks, Machine learning

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- **Geomechanics & Rockmechanics Software**: PLAXIS, Geoslope, Slide 4.0, Unwedge, Swedge, phase2D&3D
- **Programming**: Strong programming abilities in languages such as Python, with a proven track record of developing efficient and effective solutions for complex problems.

MAJOR PROJECTS

- Exploration of Mineral Resources in the Chahsorb, Tepeh Taq, and South Sorkhkouh Areas (2024-2025, Research Project, University of Birjand)
- Rock-water interaction in complex alpine groundwater systems (2017, Supervisor: Prof. Peter Huggenberger, Basel, Switzerland, Industry cooperation)
- Evaluation of groundwater flow into Bulchen tunnels by numerical modeling (2017, Supervisor: Prof. Peter Huggenberger, Basel, Switzerland.
- Stability analysis and support design for water deviation binary tunnels of Baychebagh dam (2012-2013, Omran Farab Company, Tehran, Iran)
- Evaluation of groundwater flow into Amirkabir tunnel by numerical and analytical analysis (2007-2009, Industry cooperation, Tehran, Iran)

COURSES TAUGHT

- Lecture: Machine Learning in Mining Engineering (**MSc-program**)
- Lecture: Statistics and Data Analysis in Geochemical Prospecting (**PhD-program**)
- Lecture: New Methods in Exploration (**PhD-program**)
- Lecture: Geostatistics (**MSc-program**)
- Lecture: Geo-mechanics and Environment (**MSc-program**)
- Lecture: Special Topics (**MSc-program**)
- Lecture: Hydrogeology (**MSc-program**)
- Lecture: Transport and Transformation Processes (**MSc-program**)
- Lecture: Management of Mining Waste and Tailings (**MSc-program**)
- Lecture: Python Programming Language (**BSc-program**)
- Lecture: Geotechnical Engineering (**BSc-program**)
- Lecture: Numerical analyses (**BSc-program**)
- Lecture: Statics (**BSc-program**)
- Laboratory course: Rock Mechanics (**BSc-program**)
- Lecture: Structural Geology (**BSc-program**)
- Lecture: Technical English (**BSc-program**)
- Field course: Surveying Engineering (**BSc-program**)
- Student field trips

LECTURER

2021 — Applications of Deep Learning in Mining, ITEE Webinar Series, University of Birjand

2021 — Mine Engineering in 2050, ITEE Webinar Series, University of Birjand

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2020 Image Processing for Satellite Images and its Application in The field of Mining Exploration, ITEE Webinar Series, University of Birjand

2012 Data Analysis with SPSS software workshop, Faculty of New sciences and Technology, University of Tehran

COMMITTEE MEMBERSHIP

- IMEO (Iranian Mining Engineering Organization), 2020- present
- Scientific committee of 8th Mining Engineering Conference (2020)
- Scientific committee of 10th Mining Engineering Conference (2022)

LICENSES & CERTIFICATIONS

- *Machine Learning*
  Coursera, Stanford University, Feb 2023
- *Programming for Everybody (Getting Started with Python)*
  Coursera, University of Michigan, Jan 2023
- *Programming Foundations: Beyond the Fundamentals*
  LinkedIn Learning, Dec 2022
- *Programming Foundations: Fundamentals*
  LinkedIn Learning, Sep 2022
- *Effective Listening*
  LinkedIn Learning, Sep 2022
  Field of Study: Personal Development Program: National Association of State Boards of Accountancy (NASBA)
- *Teamwork Foundations*
  LinkedIn Learning, Aug 2022
  Field of Study: Personal Development, Program: National Association of State Boards of Accountancy (NASBA)
- *3D geological modeling*
  Geological Survey and Mineral Exploration of Iran (GSI), 2013
- *ICDL*
  Iran Technical and Vocational Training Organization or in brief I.R.T.V.T.O, 2011

PUBLICATIONS

- **Publications in national and international peer-reviewed journals**

Amir Hossein Shafiee, Sarina Ahmadi, Mohammad Azizipour, Hadi Farhadian, 2026. Predicting tunnel

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water inflow with FEM and nonlinear regression: effects of permeability anisotropy. *Journal of Hydraulics* 21, no. 3 (2026): e248078.

Zahra Gholami, **Hadi Farhadian**, Seyed Amirhossein Adham Hashemi, 2025. Evaluating the effect of the number of realizations on ore grade modeling and estimation using sequential Gaussian simulation and sequential indicator simulation. *Journal of Geomine* 3, no. 4 (2025): 250-262.

Mohammad Hadi Salehzadeh, **Hadi Farhadian**, Saeed Yousefi, Mohammad Dehju, 2025. Assessment of Environmental Impacts of Mining Using Remote Sensing (Case Study: Eastern Alborz Coal Mines, Iran). Journal of Mining and Environment.

Aliyeh Seifi, Saeed Yousefi, Ahmad Aryafar, Mahdieh Hosseinjanizadeh, Arash Salajegheh, **Hadi Farhadian**, 2025. Evaluation of decision tree on ASTER statistical data for segregating alteration zones in Darrehzar deposit, Iran. Earth Science Informatics, 18(481).

Hadi Farhadian, Reza Dehshibi, 2025. Geostatistical Analysis of Groundwater Levels at Tangab Dam Using IDW, Kriging, and Sequential Gaussian Simulation. Journal of Hydraulic Structures, 12(2):1-21.

Hadi Farhadian, Davoud Sharifi Tabrizi, Saeed Yousefi, Amirhossein Rezaei, Ali Saeidi, 2025. Evaluation of geological hazards along the Karaj water conveyance tunnel using multiple approaches and GIS. Results in Engineering, 26, 104758.

Hadi Farhadian, 2025. Optimizing Minor Drainage Tunnel Position to Mitigate Groundwater Inflow in Main Tunnel Projects. Journal of Hydraulic Structures, 148-158.

Serajuddin Saed, **Hadi Farhadian**, 2025. A survey on spatial variations of groundwater quality in Kabul, Afghanistan and its evaluation for different uses. Irrigation Sciences and Engineering (JISE) 47 (4) 17-34.

Hadi Farhadian, Behshad Jodeiri Shokri, Ali Mirzaghorbanali, 2024. Granular Soils and Contaminant Modeling in Tailing Dams. Minerals 14(11).

Hadi Farhadian, Farhad Bahmani Shahraki, 2024. Enhancing analytical methods for estimating water inflow to tunnels in the presence of discontinuity areas. Environmental Earth Sciences 83 (10), 339.

Hadi Farhadian, Zahra Gholami, 2024. Hydraulic Response to Geometry: Finite Element Modeling of Underground Spaces in Saturated Environments. Journal of Hydraulic Structures, 10(1), pp.66-79.

Mahsa Sedighi, **Hadi Farhadian**, 2023. The Role of Nanoclay in the Soil Stabilization: A Short Viewpoint. Journal of Geomine, 1(2), pp.92-102.

Hadi Farhadian, Zeynab Maleki, 2023. Groutability classification of granular soils with cement grouts. Journal of Rock Mechanics and Geotechnical Engineering 15(6), 1580-1590.

Hadi Farhadian, Hossein Khakshour, Mohammad Mortezavi Nezhad, 2023. Investigating the effect of Beecher type fractures on tunnel displacement using the finite element method. Journal of Geomine 1(1),1-6.

Marzieh Shademan, **Hadi Farhadian**, 2023. Contribution of geostatistical modeling on simulating a

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geomechanical parameter (case study: GSI in Gol-Gohar open pit iron mine, Kerman, southeastern Iran). Journal of Geomine, 1(2), pp.81-91.

Hadi Farhadian, Seyed Ahmad Eslaminezhad, 2022. Estimation of Groundwater Seepage Risks into Tunnel Using Radial Basis Function Networks. Irrigation Sciences and Engineering, 45(2):109-124.

Reza Dehshibi, Shawgar Karami, Zeynab Maleki, **Hadi Farhadian**, 2022, A comparative study on evaluation of steady-state groundwater quality in Sirjan's Golgohar mineral zone, Arabian Journal of Geosciences 15(9):1-20.

Zeynab Maleki, **Hadi Farhadian**, 2022, Prediction of rockburst in water conveyance tunnel: A case study of Gelas Tunnel, International Journal of Mining and Geo-Engineering 56(3): 293-299.

Seyed Ahmad Eslaminezhad , Mobin Eftekhari , Mohammad Akbari, Ali Haji Elyasi , **Hadi Farhadian**, 2022, Predicting flood prone areas using advanced machine learning models (Birjand Plain), Water and Irrigation Management 11(4): 885-904.

Zeynab Maleki, **Hadi Farhadian**, Ebrahim Rahimi, 2022, A comparative study on the prediction of squeezing behavior: a case study of Gelas tunnel—NW Iran, Arabian Journal of Geosciences, 15(2):1-17

Hadi Farhadian, 2021, A new empirical chart for rockburst analysis in tunnelling: Tunnel rockburst classification (TRC), International Journal of Mining Science and Technology, 31(4):603-610

Hadi Farhadian, Zeynab Maleki, Seyed Ahmad Eslaminezhad, 2021. Assessment of the Optimum Depth of Sealing Cutoff Walls in the Clay Core of Peygham-Chay Dam. Journal of Hydraulic Structures, 7(1):59-76

Zeynab Maleki**, Hadi Farhadian**, Arash Nikvar Hassani , 2021, Geological Hazard in Tunnelling: The Example of Gelas Water Conveyance Tunnel in Iran. Quarterly Journal of Engineering Geology and Hydrogeology, 54(1):1-17

Hossain Bazzi, Hossain Noferesti, **Hadi Farhadian**, 2020, Modelling the effect of blast-induced vibrations on the stability of a faulted mine slope. Journal of the Southern African Institute of Mining and Metallurgy 120 (10):591-697

Hadi Farhadian, Arash Nikvar Hassani, 2020, Development of a New Empirical Method to Tunnel Squeezing Classification (TSC). Quarterly Journal of Engineering Geology and Hydrogeology

Hadi Farhadian, Arash Nikvar Hassani, 2019. Water Flow into Tunnel in Discontinuous Rock: A Short Critical Review of the Analytical Solution of the Art. Bulletin of Engineering Geology and the Environment 78 (5):3833-3849

Hadi Moeini, **Hadi Farhadian**, Arash Nikver Hassani, 2018. Determination of the optimum sealing method for Azad pumped storage dam considering seepage analysis. Arabian Journal of Geosciences 11(14):389

Arash Nikvar Hassani, **Hadi Farhadian**, Homayoon Katibeh, 2018. A comparative study on evaluation of groundwater inflow into a shallow circular tunnel. Tunnelling and Underground Space Technology 73:15-25

Hadi Farhadian, Arash Nikvar Hassani, Homayoon Katibeh, 2017. Groundwater inflow assessment to Karaj Water Conveyance tunnel, northern Iran. KSCE Journal of Civil Engineering, 21(6):2429-

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2438

Hadi Farhadian, Homayoon Katibeh, 2017. New empirical model to evaluate groundwater flow into circular tunnel using multiple regression analysis. International Journal of Mining Science and Technology, 27(3):415-421

Christoph Butscher, Stefan Scheidler, **Hadi Farhadian**, Horst Dresmann, Peter Huggenberger, 2017. Swelling potential of clay-sulfate rocks in tunneling in complex geological settings and impact of hydraulic measures assessed by 3D groundwater modeling. Engineering Geology, 221:143-153

Milad Kurdi, **Hadi Farhadian**, Teymour Eslamkish, 2016. Hydro-geochemistry of Qare-Sou Catchment and Gorgan Gulf, Iran: Examining Spatial and Temporal Distribution of Major Ions and Determining the River's Hydro-chemical Type. World Academy of Science, Engineering and Technology, International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering, 10(10): 962-976

Hadi Farhadian, Homayoon Katibeh, Peter Huggenberger, Christoph Butscher, 2016. Optimum Model Extent for Numerical Simulation of Tunnel Inflow in Fractured Rock. Tunneling and Underground Space Technology, 60: 21-29

Hadi Farhadian, Homayoon Katibeh, Peter Huggenberger, 2016. Empirical Model for Estimating Groundwater flow into Tunnel in Discontinuous Rock Masses. Environmental Earth Sciences, Springer, 2016, 75 (6): 1-16

Arash Nikvar Hassani, Homayoon Katibeh, **Hadi Farhadian**, 2015. Numerical analysis of steady-state groundwater inflow into Tabriz line 2 metro tunnel, northwestern Iran, with special consideration of model dimensions. Bulletin of Engineering Geology and the Environment, Springer, 2015, 1-11

Hadi Farhadian, Homayoon Katibeh, 2015. Groundwater Seepage Estimation into Amirkabir Tunnel Using Analytical Methods and DEM and SGR Method. World Academy of Science, Engineering and Technology, International Journal of Civil, Structural, Construction and Architectural Engineering, 9(3): 255-260

Hadi Farhadian, Homayoon Katibeh, 2015. Effect of Model Dimension in Numerical Simulation on Assessment of Water Inflow to Tunnel in Discontinues Rock, World Academy of Science, Engineering and Technology, International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering, 9(4): 256-260

Hadi Farhadian, Homayoon Katibeh, Ahmad Reza Sayadi, 2013. Prediction of Site Groundwater Rating (SGR) for Amirkabir Tunnel Using Radial Basis Function Network. International Journal of Mining, Metallurgy & Mechanical Engineering, 1(1):5-9

Hadi Farhadian, Ali Aalianvari, Homayoon Katibeh, 2012. Optimization of analytical equations of groundwater seepage into tunnels Case study: AmirKabir tunnel. Journal of the Geological Society of India, 80 (1):96-100

- **Presentations in national and international conferences**

Hadi Farhadian, Behshad Jodeiri Shokri, Hadi Nourizadeh, Ali Mirzaghorbanali, 2025. Analysis of wedge stability in the excavation of dam diversion tunnels: a case study. Resource Operator

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Conference (ROC2025), Australia.

Zahra Gholami, **Hadi Farhadian**, 2024. Investigating the Influence of Geometric Shapes of Underground Spaces on the Inflow Rate in Saturated Environments Using Finite Element Modeling, 12th Iranian Mining Engineering Conference, Kashan, Iran.

Hadi Farhadian, Zahra Sarani Zadeh, 2024. Unearthing Efficiency: The Vital Role of Tailing Dams in Mineral Processing, , 12th Iranian Mining Engineering Conference, Kashan, Iran.

Komail Kaheni, Kamal Kaheni, **Hadi Farhadian**, 2024. Project Planning, Control, and Time-Cost Balance Using the Critical Path Method: A Case Study of Excavation in a Section of the Copper Mine's Exploration Tunnel at Qal'eh Zari, 12th Iranian Mining Engineering Conference, Kashan, Iran.

Mohammad Hadi Salehzadeh, **Hadi Farhadian**, Farhad Taghavi, 2023. Analyzing the Effect of Crushed Zone Distance from the Tunnel on Displacement of Wall Floor and Ceiling using Numerical Modeling. 14th Iranian Tunnelling Conferance, Tehran, Iran.

Ali Heydari, **Hadi Farhadian**, Mohammad Hadi Salehzadeh, 2023. The Impact of Seismic Loads on the Stability of Underground Tunnels Using Finite Element Modeling. 14th Iranian Tunnelling Conferance, Tehran, Iran.

Davoud Sharifi Tabrizi, **Hadi Farhadian**, Saeid Yousefi, 2023. Analyzing Squeezing Conditions in the Amirkabir Tunnel Using Analytical Methods, 14th Iranian Tunnelling Conferance, Tehran, Iran.

Reza Dehshibi, **Hadi Farhadian**, Shawgar Karami, 2022. Combining geostatistical estimation and simulation techniques in groundwater quality assessment, Case study: Sirjan, Kerman. 10th Iranian Mining Engineering Conference, Zahedan, Iran.

Reza Dehshibi, **Hadi Farhadian**, Shawgar Karami, 2022. Investigating the spatial correlation of arsenic using sequential Gaussian simulation. 10th Iranian Mining Engineering Conference, Zahedan, Iran.

Davoud Sharifi Tabrizi, **Hadi Farhadian**, 2022. Analysis of cohesion and friction angle parameters on the stability of the tailings dam wall. 2ed National Conference of Impact and Explosion-Proof Structures, Bonab, Iran.

Hadi Farhadian, Mohammad Hadi Salehzade, Arash Nikvar-Hassani, 2021. Model dimension effect in DEM and FEM simulations for assessment of water inflow into a tunnel. 55th US Rock Mechanics/Geomechanics Symposium, Houston, Texas.

Amir Hassanzade, **Hadi Farhadian**, Hossein Noferesti, 2021. Investigation of rock burst phenomenon in tunnels using analytical and empirical methods. 9th Iranian Mining Engineering Conference, Tehran, Iran.

Reza Dehshibi, **Hadi Farhadian**, 2021. Application of stochastic simulation methods in groundwater quality classification of Birjand plain. 9th Iranian Mining Engineering Conference, Tehran, Iran.

Farhad Bahmani Shahraki, **Hadi Farhadian**, Hossein Noferesti, 2021. Optimization of analytical method for evaluating water flow into tunnel in fault zone. 9th Iranian Mining Engineering Conference, Tehran, Iran.

Farhad Bahmani Shahraki, **Hadi Farhadian**, Saeed Yousefi, 2020. Effect of Fault Geometrical Structure on Water Inflow to Underground Spaces in Saturated Media. 8th Iranian Mining Engineering Conference, Birjand, Iran.

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Mohammad Mortezavi Nezhad, **Hadi Farhadian**, 2020. Effect of different fracture distributions in Baecher-type on tunnel displacement using FEM. 8th Iranian Mining Engineering Conference, Birjand, Iran.

Zeynab Maleki, **Hadi Farhadian**, 2020. Squeezing Potential Evaluation in Second Part of Glass Tunnel Using Experimental Methods. 8th Iranian Mining Engineering Conference, Birjand, Iran.

Hadi Farhadian, 2019. Evaluation of optimum thickness of grouting zone around tunnel for reduction of water inflow into the tunnel (underground structures). 3rd International Conference on Applied Researches in Structural Engineering and Construction Management, Tehran, Iran.

Hadi Farhadian, Arash Nikvar Hassani, Hamid Reza Mohebbi, 2019. Water inflow assessment into Tabriz line 2 metro tunnel. 6th International Conference on Recent Advances in Railway Engineering, Tehran, Iran.

Alireza Moghbeli Gharaei, **Hadi Farhadian**, Saeed Yousefi, 2018. Prospecting for Copper, Zinc and Selenium Deposits in Geobotanical point of view. 10th Symposium of Iranian Society of Economic Geology, University of Isfahan, Isfahan, Iran (2):105-111.

Komeil Kaheni, Saeed Yousefi, **Hadi Farhadian**, 2018. Evaluating the economic potential of phytomining method to extract metal from low-grade mineralized areas. 10th Symposium of Iranian Society of Economic Geology, University of Isfahan, Isfahan, Iran (2):148-154.

Amir Hossein Hosseini, **Hadi Farhadian**, Komeil Kaheni, 2018. Aquifer qualitative zoning of Birjand Plain using Kriging method in GIS. 1st National Conference on Modeling and New Technologies in Water Management.

Hossein Bazzi, Hossein Noferesty, **Hadi Farhadian**, 2018. Numerical effect investigation on mining slop stabilities in static and dynamic conditions. 1st National Conference of Modelling in Mining Engineering. Imam Khomeini International University, Qazvin, Iran.

Hadi Farhadian, Vahid Khosravi, Mahsa Sedighi, 2018. How petroleum hydrocarbon contaminated soils can be treated via bioremediation? A perspective review. The 36th National and the 3rd International Geosciences Congress, Tehran, Iran.

Hadi Jarahi, Mohammad Jalali, **Hadi Farhadian**, 2014. Analysis of acceleration, uniform risk spectrum and seismic hazard using probabilistic method at the site of Baychebagh dam, National Conference on Mineral Sciences, Sari, Iran.

Arash Nikvar Hassani, **Hadi Farhadian**, Homayoon Katibeh, 2014. Validation of Seep/w software for estimating groundwater leakage to shallow tunnels, National Conference on Mineral Sciences, Sari, Iran.

Arash Nikvar Hassani, **Hadi Farhadian**, Homayoon Katibeh, 2014. Groundwater inflow assessment to Tabriz line 2 metro tunnel. National Conference on Architecture, Civil Engineering and Urban Modern Development, Tabriz, Iran.

Arash Nikvar Hassani, **Hadi Farhadian**, Homayoon Katibeh, 2014. Evaluation of SGR and TIC methods in classification of water inflow to urban tunnels; Case study: tunnel Line 2 metro Tabriz. 5th Mining Engineering Conference, Tehran, Iran.

Hadi Farhadian, Samira Tabasi, Mohammad Jalali, Homayoun Katibeh, 2012. An Optimal pattern of exploration of coal reserves. 1st National Coal Congress, Shahroud, Iran.

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Vahid Khosravi, Faramarz Doulati Ardejani, **Hadi Farhadian**, 2012. Biological absorption of Lead (II) by Saccharomyces cerevisiae biomass, Fourth Iranian Water Resources Management Conference, Tehran, Iran.

Ali Aalianvari, Homayoon Katibeh, Mostafa Sharifzadeh, **Hadi Farhadian**, 2010. Estimation of fault zone permeability with Fuzzy-Delphi AHP (FDAHP) method, Rock Mechanics in Civil and Environmental Engineering, Lausanne, Switzerland.

Hadi Farhadian, Homayoon Katibeh, Jafar Hassanpour, Ali Aalianvari, 2010. Amirkabir tunnel site rating from groundwater hazard point of view using SGR and comparison with analytical method , 3th Iranian Mining Engineering Conference, University oF Yazd, Yazd, Iran.

Ali Aalianvari, Homayoun Katibeh, Mostafa Sharifzadeh, **Hadi Farhadian**, 2009. Estimation of Initial Groundwater Inflow into Ghomroud Tunnel. 8th Iranian Tunnelling Conference, Tarbiat Modares University, Tehran, Iran.

Hadi Farhadian, Ali Aalianvari, Homayoon Katibeh, 2009. Optimization of analytical equations governing groundwater inflow into hard rock tunnels, case study: Amirkabir tunnel, 6th Conference of Engineering Geology and the Environment, Tarbiat Modares University, Tehran, Iran 1-8.

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