Navid Hosseini-Alaee

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Assistant Professor, Department of Mining Engineering, Technical Engineering Faculty, Islamic Azad University (IAU), South Tehran Branch. 45-Metri-Ahang Street, 4th Bridge, 16-Metri-Abuzar Street, Piruzi, Tehran, Iran. Postcode: 1777613511

Tel: +98(0)2133722831-7, Mob: +98(0)9124711842

Website: www.navidhosseini.ir

E-Mail: navidhosseini@gmail.com; n_hosseini@azad.ac.ir

PERSONAL INFORMATION

• Gender: Male

Date of Birth: August 20th, 1981 (Iran)
 Language Proficiency: Persian, English

EDUCATION

- Doctor of Philosophy, Mining Engineering, February 2012 Islamic Azad University (IAU), Science & Research branch, Tehran, Iran Thesis: Estimation of stress state around the longwall mining panel using passive seismic velocity tomography
- Master of Science, Mining Engineering, September 2006
 Islamic Azad University (IAU), South Tehran Branch, Tehran, Iran
 Thesis: Modeling of pillars in longwall method using advanced numerical techniques
- Bachelor of Engineering, Mining Engineering, September 2004 Islamic Azad University (IAU), South Tehran Branch, Tehran, Iran Thesis: E-commercial and dimension stone database for Iran

AFFILIATIONS

- Member of the Young Researchers Club (YRC).
- Member of the International Society for Rock Mechanics (ISRM).
- Member of the Society for Mining, Metallurgy & Exploration (SME).
- Member of the Institute of Materials, Minerals & Mining (IOM3).

RESEARCH INTERESTS

- Rock Mechanics, Rock Dynamics and Geomechanics
- Ground Control and Underground Mining
- Tomography, Acoustic Emission and Stress Detection
- Computer Application, Photogrammetry, Monitoring and Numerical Modeling in Rock Mechanics
- Mechanized Excavation of Tunneling and Underground Space

TEACHING INTERESTS

- Rock Mechanics
- Rock Dynamics
- Underground Excavation
- Strength of Materials

TEACHING

- Assistant professor in mining engineering department of Islamic Azad University (IAU) – Tehran South Branch from 2007 up to the present.
 - <u>BE</u>: Rock Mechanics, Rock Mechanics Lab., Computer Application in Mine, Strength of Materials, Geotechnics.
 - MSc: Special Topic in Mine Extraction, Tunnel and Shaft Excavation, Advanced Mathematics, Advanced Rock Mechanics, Design and Planning Underground Spaces.
 - PhD: Ground Subsidence, Mechanics of Strata and Methods of Control, Advanced Rock Dynamics.
- Research & Education Organization of Iran ministry of industry and mining (Rock Mechanics, Support in Mines, Mining Software, etc.) from 2006 up to 2009.

PUBLICATIONS & PRESENTATIONS

BOOKS

 Book with title "Computer Application in Mine", Islamic Azad University (IAU), Press, Tehran, Iran, 2007, p. 197, (in Persian).

PAPERS

O Conference Papers

- Hosseini Navid, Salehi Bahram; (2004), "Clay Bioleaching and Alumina Production" in Chemical and Geology Evaluation in Mine Conference, Islamic Azad University (IAU), South Tehran Branch & North Tehran Branch, Tehran, Iran, pp. 127 – 139, (in Persian).
- Amirafshari Mehdi, Hosseini Navid; (2004), "E-Learning and Application in Mining Engineering" in from E-Learning to Virtual University Conference, Islamic Azad University (IAU), South Tehran Branch, Tehran, Iran, pp. 74 – 88, (in Persian).
- Amirafshari Mehdi, Hosseini Navid, Salehi Bahram; (2005), "Bioleaching Application in Copper Processing" in 1st Mining Engineering Conference, Lahijan University, Lahijan, Iran, p. 454; (in Persian).
- Amirafshari Mehdi, Gholinejad Mehran, Hosseini Navid; (2005), "Mineral Processing Development Strategy" in 2nd Mining and Related Science Region Conference, Tabas University, Tabas, Iran, pp. 53 72, (in Persian).
- Amirafshari Mehdi, Hosseini Navid; (2005), "Ore Strategy in 1400 Iranian Scheduling and Ore Role in Enlarge" in National Enlarge and Outlook for Iran in 1400 Region Conference, Kermanshah University, Kermanshah, Iran, 2005, pp. 1 – 12, (in Persian).
- Amirafshari Mehdi, Kia Vahid, Hosseini Navid; (2005), "University, Industrial and Government Consociation Pattern" in 3rd Government, University and Industrial Cooperation International Congress, Tehran, Iran, pp. 1 – 12, (in Persian).
- Hosseini Navid, Oraee Kazem; (2006), "Estimation of Yield Pillar Strength by Finite Element Method" in 1st Mine & Mining Consequence International Conference, Mashhad, Iran, pp. 68 76, (in Persian).
- Amirafshari Mehdi, Hosseini Navid; (2007), "CWM Production Feasibility in Iran" in 3rd Mining and Related Science Region Conference, Tabas University, Tabas, Iran, pp. 93 103, (in Persian).

- Orace Kazem, Hosseini Navid, Gholinejad Mehran; (2008), "Logical Design of Yield Pillar Base in Longwall Mining" in 17th International Symposium on Mine Planning and Equipment Selection (MPES08), Beijing, China, pp. 706 – 712.
- Orace Kazem, Hosseini Navid, Gholinejad Mehran; (2008), "3D Strain-Softening Modeling of Coal Pillars in a Deep Longwall Mine" in 17th International Symposium on Mine Planning and Equipment Selection (MPES08), Beijing, China, pp. 761 – 767.
- Orace Kazem, Hosseini Navid, Gholinejad Mehran; (2009), "Estimation of Coal Pillar Strength by Finite Difference Model" in 9th Underground Coal Operators Conference (COAL2009), Wollongong, Australia, pp. 54 – 61.
- Orace Kazem, Hosseini Navid, Gholinejad Mehran; (2009), "The New Approach of Selected Tunnel Supporting System Using Analytical Hierarchy Process (AHP)" in 9th Underground Coal Operators Conference (COAL2009), Wollongong, Australia, pp. 78 – 89.
- Orace Kazem, Hosseini Navid, Gholinejad Mehran; (2009), "Coal Pillar Strength Based on the Ground Reaction Curve – a New Approach" in 28th International Conference on Ground Control in Mining (ICGCM), Morgantown, West Virginia, USA, pp. 21 – 24.
- Orace Kazem, Hosseini Navid, Soltani Mohammadreza, Amirafshari Mehdi; (2010), "Productivity Preferment from Economic Concept to an Engineering Tool" in 10th Underground Coal Operators Conference (COAL2010), Wollongong, Australia, pp. 368 376.
- Hosseini Navid, Oraee Kazem, Gholinejad Mehran; (2010), "Seismic Analysis of Horseshoe Tunnels under Dynamic Loads Due to Earthquakes" in 10th Underground Coal Operators Conference (COAL2010), Wollongong, Australia, pp. 140 – 145.
- Hosseini Navid, Oraee Kazem, Gholinejad Mehran;
 (2010), "Selection of Tunnel Support System by Using

- Multi Criteria Decision-Making Tools" in 29th International Conference on Ground Control in Mining (ICGCM), Morgantown, West Virginia, USA, pp. 58 66.
- Hosseini Navid, Orace Kazem, Gholinejad Mehran; (2010), "Optimization of Chain Pillars Design in Longwall Mining Method" in 29th International Conference on Ground Control in Mining (ICGCM), Morgantown, West Virginia, USA, pp. 67 – 70.
- Rostamabadi Sina, Rostami Alireza, Hosseini Navid, Khosrotash Mohammad; (2010), "Analytical and Numerical Estimation of Subsidence and Comparison to Instrumentation Results" in 2nd Maadan Charkh-e-Sanaat, Islamic Azad University (IAU), South Tehran Branch, Tehran, Iran, pp. 93 – 101, (in Persian).
- Amirafshari Mehdi, Gholinejad Mehran, Hosseini Navid; (2010), "Calculation and Productivity Analysis of Alborz-Sharghi Coal Mines" in 2nd Maadan Charkhe-Sanaat, Islamic Azad University (IAU), South Tehran Branch, Tehran, Iran, pp. 73 83, (in Persian).
- Mohammad-Hosseini Masoud, Hosseini Navid; (2010), "The Study on Shield Support System in Longwall Mining" in 2nd Maadan Charkh-e-Sanaat, Islamic Azad University (IAU), South Tehran Branch, Tehran, Iran, pp. 66 – 71.
- Orace Behdeen, Hosseini Navid, Orace Kazem, Gholinejad Mehran; (2011), "Analyses of Tunnel Stability under Dynamic Loads" in 2011 SME Annual Meeting, Preprint 11-145, Denver, CO., USA, pp. 1 - 4.
- Hosseini Navid, Gholinejad Mehran, Adib Ahmad; (2011), "Estimation of Coal Pillar Bearing Capacity Using 3D Strain Softening Modeling" in 5th national conference of geology & environment, Islamshahr, Iran, No. 39, p. 7, (in Persian).
- Rostamabadi Sina, Hosseini Navid, Ghorbani Masoud; (2011), "Evaluation of Tunnel Excavation and Ground Settlement Influence on Surface Constructions (Case Study: Tehran Metro Tunnel Line 7)", in First Asian and 9th Iranian Tunneling Symposium, Tehran,

- Iran, ATS11-03311, pp. 227 233.
- Orace Kazem, Tayebi-Khorami Maedeh, Hosseini Navid; (2012), "Prediction of the Penetration Rate of TBM Using Adaptive Neuro Fuzzy Inference System (ANFIS)", SME Annual Meeting, Seattle, WA, USA, Preprint 12-062.
- Orace Kazem, Hosseini Navid, Gholinejad Mehran; (2012), "Determining the Amplitude of Certainty for Empirical Rock Failure Criteria", SME Annual Meeting, Seattle, WA, USA, Preprint 12-027.
- Shahriar Kourosh, Hosseini Navid; (2012), "Rock Failure Criterion for Coal Basin Rocks", 18th Coal Congress of Turkey, Zonguldak, Turkey, pp. 1 – 8.
- Hosseini Navid, Behdeen Oraee-Mirzamani, Oraee Kazem; (2012), "The Evaluation of Empirical Coal Pillar Strength Formula Based on Uncertainty Criterion", 31st International Conference on Ground Control in Mining (ICGCM), Morgantown, West Virginia, USA, pp. 1 – 4.
- Rostami Alireza, Hosseini Navid, Adib Ahmad, Roozbahani Hesamedin; (2013), "The Effect of Tunnel Section Geometry on Stability and Stress Redistribution in Surrounding Rock Mass of Excavation in Urban Area (Case Study: Karaj Metro, Line #2)", Symposium and workshop of sustainable development and urban management, Tehran, Iran.
- Rostamabadi Sina, Sharifzadeh Mostafa, Hosseini Navid; (2013), "Analysis of Building Damage Caused by Twin Tunnels Excavated Using Relative Stiffness (Case Study: Isfahan Metro)", 10th Iranian Tunnelling Conference, Underground Space and the 3rd Millennium Development Goals, Tehran, Iran.
- Afrasiabian Bijan, Aghajani-Bazzazi Abbas, Hosseini Navid; (2014), "Prediction of TBM Penetration Rate by Artificial Neural Network and Multivariate Linear Regression Analysis", 5th Iranian Rock Mechanics Conference (IRMC5), Tehran, Iran.
- Mahdizadeh Mahdi, Hosseini Navid, Afzal Peyman, Kaveh-Ahangaran Dariush; (2014), "Using Size-

Number Fractal Method for Rock Classification based on Strength, Case Study: Gheshlagh Coal Mine", 5th Iranian Rock Mechanics Conference (IRMC5), Tehran, Iran.

- Mahdizadeh Mahdi, Hosseini Navid, Afzal Peyman, Kaveh-Ahangaran Dariush, Yasrebi Amir-Bijan; (2014), "Using Semi-Fuzzy RMR to Determine the Required Support System for Gheshlagh Coal Mine", 22nd UK Conference of the Association for Computational Mechanics in Engineering, University of Exeter, Exeter, UK.
- Bahador-Beygi Dawood, Hosseini Navid, Rezazadeh-Azar Ehsan; (2016), "A Quantitative Approach to Optimizing the Fuel Consumption of Dump Trucks in Earthmoving Projects", 84th ICOLD Annual Meeting, Johannesburg, South Africa, pp. 8-371 – 8-380.
- Hosseini Seyed Sohrab, Mihannejad Alireza and Hosseini Alaei Navid; (2017), "Analysis of Rock Dynamic Parameters Using Non-Destructive Experiments for Mine Design", International Conference on Civil Engineering, Architecture and Urban Development of Contemporary Iran, Tehran, Iran; https://civilica.com/doc/708950/
- Mihannejad Alireza, Hosseini Seyed Sohrab and Hosseini Alaei Navid; (2017), "Determining the Physical Properties of Limestone Using Dynamic Methods", 3th Earth Sciences and Urban Development and the First Conference on Art, Architecture and Urban Management, Tehran, Iran; https://civilica.com/doc/688359/
- Mihannejad Alireza, Hosseini Seyed Sohrab and Hosseini Alaei Navid; (2017), "Utilization of Dynamic Parameters to Estimate the Modulus of Elasticity and Compressive Strength of Uniaxial Magnetite", 3th Earth Sciences and Urban Development and the 1st Conference on art, Architecture and Urban Management, Tehran, Iran; https://civilica.com/doc/688358/
- Mihannejad Alireza, Hosseini Seyed Sohrab and Hosseini Alaei Navid; (2017), "Using of Dynamic Parameters to Estimate the Modulus of Stiffness and

- Compressive Strength of Uniaxial Magnetite", 5th International Conference on Civil Engineering, Architecture & Urban Development, Tehran, Iran; https://civilica.com/doc/735505/
- Elhamian Goodarz, Aghajani Bazazi Abbas and Hosseini Alaei Navid; (2018), "Prediction of Tehran Metro Line 7 Tunnel Meeting Using Linear Regression Method and Mamdani Fuzzy Inference System", First National Conference of Modelling in Mining Engineering, Tehran, Iran; https://civilica.com/doc/860604/
- Hosseini Seyed Sohrab, Mihannejad Alireza and Hosseini Alaei Navid; (2018), "Evaluating the Efficiency of Non-Destructive Methods in Rock Mechanics as A Complementary Method", 5th Iranian International NDT Conference, Tehran, Iran; https://civilica.com/doc/867335/
- Tahmasebi Mohammad Ali, Shirinabadi Reza, Hosseini Alaei Navid and Hosseini Morteza; (2018), "Stability Analysis of Finite Difference Maintenance System (Case Study of Zarbalizadeh Underpass Tunnel)", 5th Dam and Tunnel Conference and Exhibition, Tehran, Iran; https://civilica.com/doc/854619/
- Zoghi Emad, Shaham Afshin, Hosseini Alaei Navid and Mohammadi Ghodratalah; (2019)' "The Effect of Additives, Optimization of Cement in The Detrital Silica-Gas Reservoir of Khangiran", 5th International Conference Chemical and Petroleum Engineering, Tehran, Iran; https://civilica.com/doc/911356/
- Zoghi Emad, Shaham Afshin, Hosseini Alaei Navid and Mohammadi Ghodratalah; (2019)' "The Effect of XC Polymer on The Properties of Drilling Fluid Cake Filters in Khangiran Formation", 5th International Conference Chemical and Petroleum Engineering, Tehran, Iran; https://civilica.com/doc/911355/
- Moosavi Seyed Mohammad, Shaham Afshin and Hosseini Alaei Navid; (2019)' "Modeling with The Aim of Exploration and Exploration of Polymetallic Minerals Based on A Combination of Remote Sensing Methods and GIS in Northern Zanjan", 5th International Conference Chemical and Petroleum Engineering,

Tehran, Iran; https://civilica.com/doc/911316/

- Moosavi Seyed Mohammad, Shaham Afshin and Hosseini Alaei Navid; (2019)' "Modeling with Crosta Remote Sensing Method with The Aim of Exploring Polymetallic Minerals in GIS (North of Zanjan)", 5th International Conference Chemical and Petroleum Engineering, Tehran, Iran; https://civilica.com/doc/911315/
- Moosavi Seyed Mohammad, Shaham Afshin and Hosseini Alaei Navid; (2019)' "Preparation of Exploratory Model of Polymetallic Minerals by Remote Sensing Method of Band Composition and Band Ratio in The North of Zanjan", 5th International Conference Chemical and Petroleum Engineering, Tehran, Iran; https://civilica.com/doc/911314/

Journal Papers

- Hosseini Navid; (2002), "Mining Inexpensive Office Creation" Asia Newsletter, Tehran, Iran, Volume 418, (in Persian).
- Amirafshari Mehdi, Hosseini Navid, Meysam Mokhtari; (2006, 2006, and 2010), "HSE Learning Necessity in Dimension Stone Mines" Dimension Stone Mines Conference, Mahalat University, Mahalat, Iran, and Iranian Stone Book, Volume 8, Tehran, Iran, pp. 72 75, and in Mining Development Journal, Volume 8, pp. 87 89 (in Persian).
- Hosseini Navid; (2006), "Yield Pillar Design Feasibility by Using Chain Pillar Design Conventional Methods" Mother Industry Journal, Volume 4, Esfahan University, Esfahan, Iran, pp. 21 – 25, (in Persian).
- Hosseini Navid; (2007), "Advance Numerical Techniques Application in Rock Slope Stability Evaluation" Mining and Development Weekly, Volumes 234 and 235 (in Persian).
- Oraee Kazem, Hosseini Navid, Yasipur-Tehrani Hamid; (2007), "Chain Pillar Using in Longwall Mining Method" Bolur Journal, Volume 22, Polytechnic

- University, Tehran, Iran, pp. 22 25, (in Persian).
- Orace Kazem, Hosseini Navid; (2008), "Design of Yield Coal Pillar in Longwall Mining" Geology and Environment Journal, Volume 4, Tehran, Iran, pp. 1 – 9, (in Persian).
- Amirafshari Mehdi, Hosseini Navid, Salehi Bahram; (2009), "Mass Dynamic Parameter Model of Rock Bolts for Learning the Neural Network", Osveh Journal, Volume 15, pp. 23-31, (in Persian).
- Rostamabadi Sina, Hosseini Navid; (2011), "Tunnel Stability Analysis and Support System Design Using Finite Element Method" Bolur Journal, Volume 29, Polytechnic University, Tehran, Iran, pp. 18 – 22, (in Persian).
- Rostami Alireza, Hosseini Navid, Shabani Narjes, Khosrotash Mohammad; (2011), "The Effect of Tunnel Section Geometry on the Stability and Stress around the Excavation" Bolur Journal, Volume 29, Polytechnic University, Tehran, Iran, pp. 23 – 28, (in Persian).
- Rostamabadi Sina, Rostami Alireza, Hosseini Navid; (2011), "Studying the Subsidence Calculation Methods due to Tunnel Construction - Case Study: Tehran Metro (Line #7)", Tunnel Journal, Volume 12, Iranian Tunnelling Association Magazine, pp. 16 – 21, (in Persian).
- Rostami Alireza, Rostamabadi Sina, Hosseini Navid, Khosrotash Mohammadreza; (2011), "Numerical and Analytical Estimating of Ground Subsidence and Comparison with the Result of Observational and Instrumental Method (Case Study: Second Line of Karaj Subway Tunnel)", Journal of Earth & Resources, 4th year, Issue 3, Series No. 12, pp. 33 – 40, (in Persian).
- Hosseini Navid, Oraee Kazem, Shahriar Kourosh, Goshtasbi Kamran; (2012), "Passive Seismic Velocity Tomography and Geostatistical Simulation on Longwall Mining Panel", Archives of Mining Sciences Journal, Volume 57, Number 1, pp. 51 – 67.
- Hosseini Navid, Oraee Kazem, Shahriar Kourosh, Goshtasbi Kamran; (2012), "Simultaneous Iterative

- Reconstructive Technique (SIRT) Passive Seismic Velocity Tomography on Longwall Mining Panel", Journal of Central South University of Technology, Volume 19, Issue 8, pp. 2297 2306.
- Hosseini Navid, Oraee Kazem, Shahriar Kourosh, Goshtasbi Kamran; (2013), "Studying the Stress Redistribution around the Longwall Mining Panel Using Passive Seismic Velocity Tomography and Geostatistical Estimation", Arabian Journal of Geosciences, Issue 6, pp. 1407–1416.
- Hosseini Navid, Goshtasbi Kamran, Oraee Behdeen, Gholinejad Mehran; (2014), "Calculation of Periodic Roof Weighting Interval in Longwall Mining Using Finite Element Method", Arabian Journal of Geosciences, Issue 7, pp. 1951 – 1956.
- Hosseini Navid, Gholinejad Mehran; (2014), "Investigating the Slope Stability Based on Uncertainty by Using Fuzzy Possibility Theory", Archives of Mining Sciences Journal, Volume 59, Number 1, pp. 179 – 188.
- Sedaghat-Nejad Hesam, Hosseini Navid, Nikvar-Hassani Arash; (2016), "Determination of the Optimum Size of Building Stone Blocks; Case Study: Delichay Travertine Mine", International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering, Volume 10, Number 3.
- Rostamabadi Sina, Sharifzadeh Mostafa, Hosseini Navid; (2016), "Analysis of Twin Tunnels Excavation on Ground Settlement by Using Empirical and Numerical Method (Case Study: Isfahan Metro)", Tunnel Journal, Volume 26, Iranian Tunnelling Association Magazine, pp. 21 26, (in Persian).
- Bahador-Beygi Dawood, Hosseini Navid, Rezazadeh-Azar Ehsan; (2016), "Reducing Emissions of Greenhouse Gases by Optimizing Fuel Consumption in Construction Machines", Payam-e-Abadgaran, Syndicate of Iran Construction Companies Monthly Magazine, Number 345, pp. 48 - 59 (in Persian).
- Hosseini Navid; (2017), "Evaluation of the Rockburst

- Potential in Longwall Coal Mining Using Passive Seismic Velocity Tomography and Image Subtraction Technique", Journal of Seismology, DOI: 10.1007/s10950-017-9654-4.
- Samieinejad Mohammad Masoud, Hosseini Navid, Ahangari Kaveh; (2017), "A Field Investigation of the Application of Digital Terrestrial Photogrammetry to Characterize Geometric Properties of Discontinuities in Open Pit Slopes", Journal of Mining and Environment, DOI: 10.22044/jme.2017.930
- Hosseini-Alaee Navid, Mozafari Ali, Mirzaee Misagh, Faghihi Aref, Tolouei Kamyar; (2019), "Fuzzy evaluation method for the identification of subsidence susceptibility in an underground mine (case study in Tabas coal mine of Iran)", Journal of Natural Hazards, https://doi.org/10.1007/s11069-019-03774-2
- Pezeshkan Mehdi, Hosseini Navid; (2020), "An approach based on Fuzzy Best-Worst method for sustainable evaluation of mining industries", Mineral Resources Management, Volume 36, Issue 2, pp. 41–70, DOI: 10.24425/gsm.2020.132563
- Sasan Sepehri, Reza Shirinabadi, Navid Hosseini-Alaee, Ehsan Moosavi and Amirhossein Bangian-Tabrizi; (2020), "Investigating the effects of rock failure mechanism on its bearing capacity using the three-dimensional particle flow code (PFC3D)", Journal of Mining and Environment, DOI: 10.30479/JMRE.2019.10985.1283
- Pezeshkan Mehdi, Hosseini Navid; (2020), "An integrated approach for performance evaluation of mining industry: a case study of Iranian Steel Complex", Mineral Resources Management, Volume 36, Issue 3, pp. 5–28, DOI: 10.24425/gsm.2020.133931

PROJECTS & RESEARCHS

- Design and programming of *Iranian Dimension Stone* website with the aim of introduction, search and on-line buying, 2004.
- Design and management of Madan-Gostar Bisotun Co. website, from 2003 up to 2006.

- Member of teamwork in "Feasibility Study and Application of Coal Water Mixture in Iran" project, Optimization Fuel Consumption Organization, Tehran, Iran, 2002.
- Programming code and design of Master Database Software, Learning & Research Institute, Iran Ministry of Industry and Mining, Tehran, Iran, 2003.
- Member of teamwork in "Mineral Processing Importance" project, Geological and Exploration Services Organization of Iran, Tehran, Iran, 2003.
- Executor of "Feasibility Study of Abrasive Using Garnet in Iran" project,
 Tolu-e Shargh Co., Kerman, Iran, 2003.
- Member of teamwork in "The Flowcharts Design of Research Operations Database" project, Islamic Azad University (IAU), South Tehran Branch, Tehran, Iran, 2004.
- Member of teamwork in "Database of ore and mineral extraction in Iran" project, National Geoscience Database of Iran (NGDIR), Tehran, Iran, 2004.
- Member of teamwork in "Consideration of University, Government and Industrial Connection" project, Islamic Azad University (IAU), Tehran, Iran, 2005.
- Member of teamwork in "Analysis of Research Law, Dissertations, Research Tools and Research Center" project, Islamic Azad University (IAU), Tehran, Iran, 2005.
- Executor of "The design of Salt Mine" project, Zamin-Sanaat Co., Semnan, Iran, 2006.
- Member of teamwork in "Copper Analysis and its Strategy Production in Iran" project, Islamic Azad University (IAU), South Tehran Branch, Tehran, Iran, 2007.
- Executor of "Cement Analysis and its Strategy Production in Iran" project, Young Researchers Club, Tehran, Iran, 2008.
- Executor of "Extraction Design and Production Scheduling of Gandy Gold Mine - Dameghan" project, Madankavan Bisotun Co., Tehran, Iran, 2008.
- Member of teamwork in "The Coal Tailing Study for Determine the Industrial Application" project, Madankavan Bisotun Co., Tehran, Iran, 2009.
- Executor of "Determination of Rock Mass Strength Based on Traditional Rock Failure Criteria" project, Islamic Azad University (IAU), South Tehran Branch, Tehran, Iran, 2010.

- Executor of "Large-Scale Slope Stability Analysis Based on the Combination Study of Effective Parameters under Uncertainty Conditions" project, Islamic Azad University (IAU), South Tehran Branch, Tehran, Iran, 2011.
- Project manager in "Check Leakage of Evaporative Ponds", Hampa Danesh Shidvash Consultant Engineers Company, Potash Complex, IMPASCO, Khour and Biabanak, Isfahan, 2015.
- Project manager in "Geotechnical Comprehensive Studies Angouran Lead and Zinc Complex", Hampa Danesh Shidvash Consultant Engineers Company, Angouran Complex, IMPASCO, Dandy, Zanjan, 2016.
- Project manager in "Mining Exploration Studies DehZaman Iron Mine", Hampa Danesh Shidvash Consultant Engineers Company, Faravari Maadani Opal Kani Pars, Bardeskan, Dehzaman, Khorasan, 2016.
- Project manager in "Geotechnical Instrumentation in Zarbalizadeh Underpass", Hampa Danesh Shidvash Consultant Engineers Company, Hara Institution, Tehran, 2017.
- Project manager in "Flat Wedge Dilatometer Test", Hampa Danesh Shidvash Consultant Engineers Company, Bainolmelal Omran Sarir, Metro, H7 Station, Tehran, 2017.

PRESENT POSITION

- Faculty Member of Mining Engineering Department, Islamic Azad University (IAU), South Tehran Branch, Tehran, Iran from 2007 up to the present.
- Head of Department, Mining Engineering Department, B.E. and M.Sc., Islamic Azad University (IAU), South Tehran Branch, 2012 up to 2015.
- **Head of Department,** Mining Engineering Department, Ph.D., Islamic Azad University (IAU), South Tehran Branch, 2014 up to 2015.
- **Head of Incubator Center of Technology Units**, Islamic Azad University (IAU), South Tehran Branch, 2014 up to 2018.
- Member of reviewer committee of Geology and Environment Journal of Islamic Azad University (IAU), Islamshahr Branch from 2009 up to the present.
- Chairperson of the Board, Technical and Engineering Madankavan
 Bisotun Company, from 2007 up to 2012.

- Member of reviewer committee of International Mining Congress, 2010.
- Head of scientific committee and member of reviewing committee of 2nd Maadan Charkh-e-Sanaat, Islamic Azad University (IAU), South Tehran Branch, 2010.
- Journal reviewer for Journal of Mountain Science (ISI, IF: 1.017), from 2012 up to the present.
- Journal reviewer for Journal of Research in Environmental Science and Toxicology, from 2012 up to the present.
- Journal reviewer for Journal of Civil Engineering and Construction Technology, from 2012 up to the present.
- Journal reviewer for Natural Hazards (ISI, IF: 1.746), from 2013 up to the present.
- Journal reviewer for Journal of Applied Geophysics (ISI, IF: 1.355), from 2013 up to the present.
- Journal reviewer for Applied Geophysics (ISI, IF: 0.804), from 2014 up to the present.
- Journal reviewer for **Open Journal of Geology** (ISI, IF: 0.60), from 2014 up to the present.
- Journal reviewer for Geosciences Journal (ISI, IF: 0.922), from 2015 up to the present.
- Journal reviewer for **Arabian Journal of Geosciences** (ISI, IF: 1.224), from 2016 up to the present.
- Chairperson of the Board, Hampa Danesh Shidvash Consultant Engineers Company, from 2014 up to the present.
- Chief Executive Officer (CEO), Hampa Danesh Shidvash
 Consultant Engineers Company, from 2015 up to the 2019.
- Chairperson of the Board, Hampa Fanavaran Shidvash Company, from 2016 up to the present.
- Member of the Board, Ayerma Consultant Engineers Company, from 2017 up to the present.
- Mine deputy of Zarrin Industrial and Mining Holding Group, from 2018 up to 2019.
- Chairperson of the Board, Kansar Faravar Mobin Company, from 2018 up to the present.
- Chairperson of the Board, Hampa Faravar Iranian Company, from 2020 up to the present.

 Chairperson of the Board, Hampa Danesh Iranian Company, from 2020 up to the present.

IT & COMPUTER SKILLS

GENERAL

- O Windows Seven & Windows Server
- Microsoft Office
- O Visual Studio.Net (Specially: Visual Basic.Net, and C#.Net)
- o SQL Server
- Photoshop, CorelDraw, 3D MAX, Flash MX
- AutoCAD
- MATLAB
- o LINGO
- Expert Choice
- COMFAR Expert III

• SPECIAL

- o ITASCA (FLAC, FLAC 3D, UDEC, 3DEC, PFC 2D, and PFC 3D)
- Rocscience (RocPlane, RocSupport, RocLab, RocData, Dips, Phase², RocFall, Unwedge, Swedge, Slide, and Examine2D & 3D)
- Logging Software (View Log, Win Logger, and Log Plot)
- Tomography Software (TomoDD, SIMULPS, GeoTom, RAYFRACT, TomTime)
- Surveying Software (Surfer, and SDRmap)
- o ROCKWORKS
- o PLAXIS
- o SURPAC
- o ROCK3D
- DIGITIZER
- NIOSH Software (AHSM, ALPS, AMSS, ARBS, ARMPS, ARMPS-HWM, CMRR, LaModel, Tunnel Assistant, AQE, and STOP)
- Several programming code such as "Plane Failure", "NPV", "Rock Mass Coefficients (RMC)", "Roof Support Load (RSL)", and etc.

HOBBIES

- Listening to Music
- Travelling
- Playing Tennis
- Visiting Friends

THESIS SUPERVISED & ADVISED

• Bachelor of Engineering

- Ashkan Sasani; Under-Load Tunnel Design Based on the Concrete Permeability and Rock Mass - Structure Reaction, IAU - South Tehran Branch, B.E., 2009.
- Shahram Sharifi; Estimation of Applied Load on Roof Stope in Longwall Mining, IAU — South Tehran Branch, B.E., 2009.
- Mohammad Arab-Bagheri; Analysis of Subsidence Due to Coal Mining in Longwall Method, IAU — South Tehran Branch, B.E., 2009.
- Mohammad-Saleh Rafii-Nia; Analysis of Caving Mechanism in Longwall Mining Method, IAU — South Tehran Branch, B.E., 2009.
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