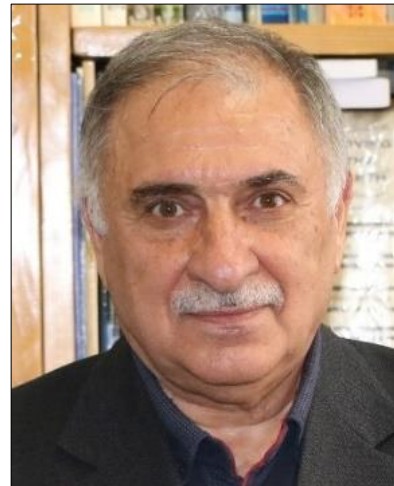


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RESEARCH INTERESTS

- Engineering Education
- Rock fracturing
- Rock drillability
- Geo-hazards
- Geotechnical investigation

PUBLICATIONS

a) Books

- Memarian H. 2020. Status Report of Engineering Education in Iran. Iranian Society of Engineering Education (ISEE) Publication, Tehran. 216 pp.
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b) Journal Papers:

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81. Memarian H. 2009. BSc Engineering Science, a new approach in engineering education The Conference on Engineering Education in 2025, University of Tehran, 12-13 May 2009. 18 pp.
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85. Mojarab M., Memarian H., Roozkhah P. 2008. Determination of overburden thickness over bedrock using S wave velocity and local microtremors, a case study from the city of Shahrekord. 5th Conference of Engineering Geology and the Environment of Iran, Tehran, pp 283-290.
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90. Tokhmechi B., Memarian H., Moshiri B., Ahmadi Noubari H., 2008. Critical study of traditional joint set classification methods. 2nd Iranian Mining Engineering Conference, Tehran. pp. 579-587. 28-30 Oct 2008.
91. Shafiei A., Dusseault M., Memarian H., Samimi B. 2007. Production technology selection for Iranian naturally fractured heavy oil reservoirs. 8th Canadian International Petroleum Conference, Calgary Alberta Canada, 12-14 June 2007. pp 1-16.

92. Mojarab M., Roozkhosh P., Memarian H., Zare M. 2007. A GIS-based landslide potential zonation based on earthquake hazard, case study: city of Shahrekord. Map Asia Kuala Lumpur, Malaysia, pp 1-8.
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95. Khoshbakht F., Memarian H., Mohammad Nia M. 2007. Comparison of fractures in Asmari, Pabdeh, and Gurpi Formations in similar structural settings, using image logs. The 25th Symposium of Earth Sciences, Geological Survey of Iran, Tehran.
96. Mojarab M., Memarian H, Zare M, Rozkhosh P. 2007. Landslide zonation based on earthquake hazard in the city of Shahrekord. 5th International Conference on Seismology and Earthquake Engineering (SEE5), International Institute of Earthquake Engineering & Seismology (IIEES), Tehran. 8 p.
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99. Meybodian M., Memarian H., Zare M. 2007. Risk and hazard assessment in open pit mines of Iran. 5th International Conference on Seismology and Earthquake Engineering, Institute of Earthquake Engineering & Seismology (IIEES), Tehran.
100. Jalali M., Memarian H., Zare M. 2007. The behavior of diffusion index and permeability in seismic zones. 5th International Conference on Seismology and Earthquake Engineering, Institute of Earthquake Engineering & Seismology (IIEES), Tehran. 7 p.
101. Jalali M., Memarian H., Zare M. 2007. Induced seismicity modeling of hydrocarbon activities. 5th International Conference on Seismology and Earthquake Engineering, Institute of Earthquake Engineering & Seismology (IIEES), Tehran. 7 p.
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105. Heidari B., Memarian H. 2006. Mechanical Formation Damage Due To Stress Concentration Induced By Drilling In Sarajeh Gas Field, Iran. Geomodel 2006 - 8th EAGE science and applied research conference on oil and gas geological exploration and development. DOI: 10.3997/2214-4609.201404064
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108. Azizi V. & Memarian H. 2006. Prediction of mechanical parameters of rock, using shear wave travel time. Proceedings of ISRM International Symposium: 4th Asian Rock Mechanics Symposium, Rock Mechanics in Underground Construction, Singapore, 8-10 November.
109. Memarian H. 2006. Database of geotechnical documents of Iran, 7th Tunneling Conference, Sharif University, Tehran.
110. Mojarab M., Memarian H., Zare M. 2006. Application of GIS in engineering geological zonation mapping of Shahrekord. 1st Disaster Conference of Iran, Tehran. pp. 229-238.
111. Dehkhoda S., Memarian H., Mehinrad A. 2006. An application of fuzzy sets to the Geological Strength Index (GSI). 7th Tunneling Conference, Sharif University, Tehran. pp. 41-54.
112. Fasihi Dastjerdi E., Memarian H., Moameri H. 2006. Road header performance at soft ground and inclined tunneling, 7th Tunneling Conference, Tehran. pp. 1-13.
113. Khoshbakht F., Memarian H. 2006. Comparison of image log and cores in a carbonate reservoir in SW of Iran. . 1st Iranian Petroleum Engineering Congress. 30-31 May 2006 Tehran. Paper No 96,10 pages.
114. Khoshbakht F., Norouzi GH., Memarian H. 2006. Integrated study of naturally fractured carbonate reservoir using borehole image and conventional wireline logs. 1st Iranian Petroleum Engineering Congress. 30-31 May 2006 Tehran. Paper No 101, 7 pages.
115. Zohourian S., Bashari A., Memarian H. 2006. Reservoir characterization of Arab Formation in Balal Oilfield. . 1st Iranian Petroleum Engineering Congress. 30-31 May 2006 Tehran. Paper No 100, 15 pages.
116. Azizi V. & Memarian H. 2006. S wave velocity estimation for evaluating geomechanical properties of rocks in oil and gas wells of Iran. 1st Iranian Petroleum Engineering Congress. 30-31 May, Tehran. Paper No 30, 10 pages.
117. Azizi V. & Memarian H. 2006. Estimating geomechanical properties of rocks, using porosity data of oil and gas wells. 1st Iranian Petroleum Engineering Congress. 30-31 May 2006 Tehran. Paper No 97, 8 pages.
118. Memarian H. & Javadi M. 2006. Designing educational programs for the mining environment. 6th Congress on Safety, Health, and Environment in Mines and Related Industries. 9-11 May 2006. Pp. 416-428. (Key-note lecture).
119. Memarian H. & Saeidi F. 2006. Designing Safety and health educational programs for the Iranian mining industry. 6th Congress on Safety, Health, and Environment in Mines and Related Industries. 9-11 May 2006. Pp. 57-69.
120. Memarian H. 2005. Mining engineering education in Iran and the world. 20th World Mining Congress (WMC), Tehran. 7-11 Nov. 2005, Volume 1, pp 61-66. (Key-note paper).
121. Memarian H., Moameri H., Najafi A. 2004. Coring diamond bit selection for geotechnical drillings of Iran. 6th Tunnelling Conference. Tehran. Pp 533-545.
122. Zare M., Memarian H. 2003. Macroseismic intensity and attenuation laws, a study of the Iranian Earthquakes of 1975-2000. 4th International Conference on Earthquake Engineering and Seismology. International Institute of Earthquake Engineering and Seismology (IIEES). Tehran. pp 1-8.

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124. Memarian H., Hansson J., Farmani M.B. 2003. Factors controlling contact forces in unbound materials. Third Iranian Conference on Engineering Geology and the Environment. pp. 503-522.
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126. Zare M. & Memarian H. 2002. The Iranian earthquake intensity database: 1975-2000. 9th International Congress of the International Association of Engineering Geology and the Environment, Durban, South Africa.
127. Rezaee M. H., Memarian H., Rajaei A. H. 2002. Using Tomography to define mechanical parameters for the rock masses. 1st Iranian Rock Mechanics Conference.
128. Memarian H. 2001. The role of geo-environmental factors in the relocation of the capital city of Iran. Proceeding of the International Symposium on Engineering Geological Problems of Urban Areas. International Association for Engineering Geology and the Environment, Yekaterinburg, Russia.
129. Memarian H., Rostami J., Moamery H. 2001. The study of rock abrasion as a tool for the classification of Iranian rocks. 5th Iranian Tunnelling Conference. Tehran, pp 3-12.
130. Memarian H. & Falaknaz N. 2001. Stability analyses of rock slopes by block theory. 1st Iranian Conference on Surface Mining. Kerman. pp. 115-123.
131. Memarian, H., Norouzi D. 2001. Natural dams and related lake deposits in Central Alborz, Iran. 2nd Iranian Conference on Engineering Geology and the Environment. Tehran. pp 781-800.
132. Memarian H. & Zare M. 2001. The study of the epicentral intensity of Iranian earthquakes. Proceeding of the 19th Symposium on Geosciences, Geological Survey of Iran. P. 73.
133. Memarian H. 2000. Safety Instructions in Drilling and Excavation, Third Mine Safety and Health Conference, National Iranian Steel Company, pp. 72-89.
134. Memarian H. 1994. Designing and preparing materials for engineering geology courses concerning local geology and domestic needs: a case study from Iran. 7th International Congress International Association of Engineering Geology IAEG, Lisboa, Portugal, pp. 4853-4856.
135. Memarian H. 1988. Some considerations on exploration and production of sand and gravel in Iran. 2nd Mining Symposium of Iran, Kerman, pp 170-202.
136. Memarian Hossein 1987. The role of geological destructive factors in road maintenance. Iran's First Road Seminar, Ministry of Planning and Budget and Ministry of Roads and Transportation, Tehran, pp. 56-42.
137. Memarian H. & Saeb Saeed. 1985. The role of ground exploration in the design of underground structures, 2nd tunneling seminar, Research Office and Technical Criteria of the Ministry of Planning and Budget, Tehran, pp. 214-240.
138. Memarian H. 1985. Methods of geological exploration of tunnels, 2nd tunneling seminar, Research Office and Technical Criteria of the Ministry of Program and Budget, Tehran, pp. 241-260.

HONOURS AND AWARDS

- 2014: Certificate of merit and an award from 31st *Book of The Year of Islamic Republic of Iran 2013*, for a book entitled "Innovation in Engineering Education", Tehran University Publications, 478 pp.
- 2011: Certificate of merit from 19th Islamic Republic of Iran's University Book of the Year, 2010, for a book entitled "Engineering Profession" Tehran University Publication, 534 pp.
- 2010: Certificate of merit and award from 27th *Book of The Year of the Islamic Republic of Iran*, for a book entitled "Structural Geology", Tehran University Publications, 866 pp. Selected as Book of the Year. 2010.
- 2009: Certificate of merit and award from 10th *Book of The Season of Islamic Republic of Iran* (Summer 2009), for a book entitled "Engineering Profession" Tehran University Publication, 534 pp.
- 2009: Certificate of merit and award from 7th *Book of The Season of Islamic Republic of Iran*, for a book entitled "Structural Geology" (Winter 2007).
- 2002: Certificate of merit and award from the 3rd *Iranian Educational Book Festival*, for a book entitled "The Story of Oil"
- 1997: Certificate of merit and award from 14th *Islamic Republic of Iran's Book of the Year*, for a book entitled "Engineering Geology and Geotechnics".
- 1994: Certificate of merit from 5th *Islamic Republic of Iran's University Book of the Year*, for a book entitled "Geology for Engineers".
- 1992: Certificate of merit from 3rd *Islamic Republic of Iran's University Book of the Year*, for a two-volume book entitled "Physical Geology".

PROFESSIONAL AFFILIATIONS

a) Societies, Conferences & Journals

- 2009- Present Associate member of the engineering branch of the *Academy of Science* of Iran.
- 2009- Present Founding member of the *Iranian Society of Engineering Education*.
- 2007- Present Member of the editorial board of the *Iranian Journal of Mining Engineering*.
- 2006- Present Member of the editorial board of the *Iranian Journal of Engineering Geology and the Environment*.
- 2006-Present Member of the Editorial Board of the *Journal of Mining Council of Iran*.
- 2005- Present Founding member and vice president of the *Iranian Association of Petroleum Geologists*.
- 2005- Present Member of the *Iranian Society of Value Engineering*.

2004- Present	Member of the <i>European Association of Geoscientists and Engineers (EAGE)</i> and founding member and vice president of its national chapter.
2001- Present	Founding member of the <i>Iranian Society of Mining Engineering (ISME)</i> .
1998- Present	Member of the <i>International Society of Rock Mechanics (ISRM)</i> and its national chapter (IRSRM).
1997- Present	Member of the <i>International Association of Engineering Geology and the Environment (IAEG)</i> and founding member of its national chapter (IRAEG).
2000- Present	Member of the editorial board of <i>Geosciences</i> , Scientific Quarterly Journal of Geological Survey of Iran.
1999-2002	Member of the editorial board of <i>The Journal of Faculty of Engineering</i> , University of Tehran.
1996-present	Member of the Executive Committee and advisory boards of more than 15 national and international conferences.

b) Technical Committees

1999-2008	Member of the technical committees (Geotechnical and Rock Mechanic) of Mahab Ghods Consulting Company.
2007-2008	Geotechnical Consultant for Darkhowin atomic energy power plant.
1998- Present	Member of the Supreme Geotechnical Committee, Management and Planning Organization of Iran
2001-2003	Member of the R & D Committee, Iranian Offshore Oil Company.
1998-2002	Consultant for engineering geology and geological hazards, and member of the R&D Committee of the National Iranian Red Crescent (Red Cross).
1996-1998	Geotechnical Consultant for Booshehr Atomic Power Plant, The Atomic Energy of Iran.
1997-1999	Member of the National Committee on Earthquake and Slope Failures, Ministry of Housing and Urban Development.
1996-2003	Member of the Committee for standardization of engineering geological activities, Ministry of Energy of Iran.
1999-2003	R & D consultant of the University of Industries and Mines of Iran.
1995- Present	Registered qualified Geotechnical Engineer. Management and Plan Organization of Iran.
1975-Present	R&D consultant in engineering geology, geotechnics, mine exploration, and geological education. Working with the Ministries of Energy; Industries & Mines; Housing and Rural Development; Science, Research and Technology; Education and Training; also Management and Plan Organization of Iran, Atomic Energy of Iran, Red Crescent of Iran, and the private sector.

R&D PROJECTS

2005- 2008	Design and development of a method for bit selection and bit life estimation; for Petroleum Engineering & Development Company of Iran.
2005-2008	Revaluation of MSc Mining Engineering Exploration program; for Ministry of Science, Research and Technology of Iran.
2005-2007	Revaluation of BSc Mining Engineering Exploration program of Iran; for Ministry of Science, Research and Technology of Iran.
2004-2006	Design of a new program for safety, health & and environmental education in the Iranian mining industry; for the Ministry of Industries and Mines of Iran.
2004-2006	Design and development of National Geotechnical Database. National Geoscience Database of Iran, Geological Survey & Mineral Exploration of Iran.
2002-2003	Design and development of Databank of Geotechnical References of Iran. National Geoscience Database of Iran. Geological Survey & Mineral Exploration of Iran.
2002-2003	Preparation of National Standard for Exploration Map Symbols. Ministry of Industry and Mines of Iran.
2001-2005	The study of drillability and abrasiveness of rocks. Research Project of the National Mining Pole of Excellency, University of Tehran.
2000-2003	Toward a new classification for the drillability of some Iranian rocks. Research project of the University of Tehran
2000-2003	Estimating and simulation of earthquake intensity in Iran for crisis management, Red Crescent (Cross) Organization of Iran.
1999-2001	Study on status of mining and metallurgy education in Iran, Ministry of Industries and Mines.
1999-2001	Designing an expert system for evaluating the workforce, National Iranian Steel Company.
1999-2001	Study on the present status and future scope of manpower in National Iranian Steel Company.
1999-2000	Evaluation of toppling failure in Karoon III Dam, south Iran.
1998-1999	landslide zonation mapping in northwest Iran.
1998-1999	A study on Geo-environmental factors controlling the relocation of the capital city of Iran.
1998-1999	Engineering geological study of landslide lakes in Central Alborz, Iran. Research Project of Tehran University and Geological Survey of Iran.
1997-1999	Designing a series of degree courses (Exploration, Drilling, and Mine Exploitation), for the Ministry of Industries & Mines.
1996-1997	Preparing the draft of the National Standard for field mapping of rock discontinuities, Ministry of Energy of Iran.
1994-1996	Engineering geological mapping of five western provinces of Iran for urban development purposes, Ministry of Housing and Urban Development.

ACADEMIC WORK EXPERIENCE

2018- Present	Adjunct Professor, University College of Engineering, University of Tehran
2007- 2018	Professor of Geo-Engineering, University College of Engineering, University of Tehran
2008- Present	Adjunct Professor, Department of Engineering Science, University of Tehran.
2004- Present	Adjunct Professor, Department of Earth Sciences, University of Waterloo, Canada.
2004- 2010	Adjunct Professor, Petroleum Institute, University College of Engineering, University of Tehran.
2004- 2013	Chair of Petroleum Exploration Education, Faculty of Engineering, University of Tehran.
2004- 2018	Founder and director of Geo-Engineering Laboratory, School of Mining Engineering, University of Tehran.
1989- 2018	Faculty member, School of Mining Engineering, University of Tehran. Supervising over 100 postgraduate theses and BSc projects and presenting over 20 different courses (Geotechnics, Engineering Geology, Geology for Engineers, Structural Geology, Physical Geology, Field Geology, Engineering Profession, etc), both at undergraduate and postgraduate levels, in Civil Engineering, Mining Engineering, and Geology disciplines.
1997-1999	Vice Chairman and graduate officer of the Mining Engineering Department of Tehran University.
1981-1989:	Faculty member, Geology Department, Allameh Tabatabai University, Tehran Iran.
1975-1980:	Faculty member, Free University of Iran: Geology course team chairman (1977-1981), Chairman, Department of Geology (1976-1981).
1972-1973:	Well-site geologist, Iranian Oil Exploration and Producing Company, Ahwaz, Iran.
1970-1972:	Coal mine exploration geologist, Iranian Steel Company, Kerman, Iran.

EDUCATION

1991-1994:	PhD, Rock Fracturing, University of Wollongong, Wollongong, NSW, Australia. Thesis title: Jointing and Fracturing of Rock Masses, Illawarra Coal Measures, South-eastern Sydney Basin, NSW, Australia.
1973-1975:	M.Sc., Engineering Geology, University of Waterloo, Waterloo, Ontario, Canada. Thesis title: Past and Present Stability and Evolution of Niagara Gorge in the Vicinity of Niagara Glen, Niagara Falls, Ontario.
1966-1970:	B.Sc., University of Tehran, Tehran, Iran. Project title: Geology of Latyan Dam Area, NE Tehran.