

CURRICULUM VITAE



Mahmoud Yazdani

Born: May 22, 1969, Tehran, Iran
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PROFILE

Dr. Mahmoud Yazdani is an expert in fundamental and applied geotechnical engineering and rock mechanics. He has a proven track record of experience and a distinct combination of skill set including engineering design, research innovation, computer-aided calculation, numerical analysis, programming, project management, industry engagement, and experimental tools development. He has over 22 years of professional, academic and research experience in the areas of geotechnical and structural engineering and conducted consulting to industry, theoretical and applied research, teaching, project implementation and technical supervision. He has successfully accomplished several granted projects and numerous publications including books, papers, and guidelines. His fields of expertise cover a range of topics, including: geotechnics and rock mechanics, structural engineering, subsurface exploration, underground excavation, fluid flow and hydro-mechanical coupling, monitoring and back analysis.

Since 2003, he has served as the academic member of civil engineering department in graduate university of Tarbiat Modares in Tehran. During this period, he worked as the head of geotechnical engineering group (2 years), the educational deputy (4 years) and also the general director of technical office & civil engineering projects of the university (3.5 years). With his multidisciplinary background, he has much been active collaborator and accomplished 3 research joint projects with professionals from worldwide highly ranked universities. He has supervised 3 PhD and 50 master research thesis and currently is the principal supervisor for 3 PhD and 6 master students. He has been the author/co-author of 4 books and over 120 refereed publications in different journals, various conference and symposia proceedings and has produced more than 150 geotechnical engineering reports. He has accomplished 15 research projects funded by private clients, Ministry of Water and Energy, Ministry of Roads and Urban Development, Housing Foundation in Iran and also Korea Institute of Geoscience and Mineral Resources (KIGAM).

Through the supervision of over 10 master thesis, he has extended the application of Taguchi method (known generally for design of experiments) to obtain many benefits in a wide range of civil engineering and geotechnical practices. Using this approach, he used limited systematic analyses based on orthogonal arrays to achieve model calibration and parameter determination by back analysis of experiments, mix design of lightweight concrete, optimization of design support for deep excavation, etc. Mahmoud has many years of hands-on experience in dam and hydro-power plant projects involved in design, construction, and quality control teams collaborating with technical committees of high ranked national and international firms. He was involved in several large dam and hydro-power plant projects including: Bakhtiyari dam,

Seymareh dam, Karkheh dam, Gotvand dam, Karun IV dam in Iran and Roqun dam in Tajikistan.

Besides the academic endeavor, he has established a private consulting engineering & research company since 2007 and applied new technical approaches in deep excavation practices and developed innovative tools for in-situ shear strength and plate loading tests which successfully applied in parameter determination of numerous geotechnical projects including very deep excavations. Based on his knowledge on rock mechanics, he used porous lightweight aggregates of LECA and Pumice in cement concrete and for the first time in the country designed and constructed some reinforced concrete buildings in Tehran using structural lightweight concrete.

RESEARCH STUDIES

- Application of deep drilling to study regional stress field and active faults
- In-situ stress measurements in rock masses using HF and HTPF
- Numerical modeling of hydraulic fracturing in rock by hybrid method of Bonded Particle Method (BPM) and Smoothed-particle hydrodynamics (SPH)
- Numerical simulation of internal instability of granular soils by Computational Fluid Dynamics (CFD) and Particle Fluid Code (PFC)
- In-situ and laboratory tests for soil and rock materials
- Analytical, experimental and numerical modeling of grout injection in rough rock joints by UDEC and COMSOL
- Numerical modeling of geotechnical structures by FEM, FDM and DEM techniques
- Application of Taguchi method as a systematic technique for design of experiments in different geotechnical problems
- Stabilizing systems for deep excavations in urban areas, large underground caverns, tunnels, landslides and foundations

EDUCATION

Ph.D. in Rock Mechanics	The University of Tokyo, Japan	1998 – 2002
Thesis: Seismic Safety Evaluation of Concrete Arch Dams Based on Shear failure of Jointed Rock Mass at Abutment		
M.S. in Geotechnics	Tehran University, Iran	1992 – 1995
Thesis: Dynamic Nonlinear Analysis of Saturated Soil Structures as Two Phase Media by Finite Element Method		
B.S. in Civil Engineering	Tehran University, Iran	1987 – 1992

PROFESSIONAL EXPERIENCE

JIP Consulting Engineers Co. CEO and Founder 2007 – Now

- Geotechnical investigations of some 150 large urban projects
- Design of support system for deep excavations upto 40 m depth for some 40 projects
- Over 500 In-situ shear and plate load tests
- Technical Inspections of some 15 deep excavation projects
- Analysis and design of supplementary supports for large underground caverns of 3600 MW hydro-power plant of *Raqon* dam in Tajikistan
- Analysis and design of railroad and highway tunnels: *Ardebil-Mianeh, Aghkand, Kermanshah-Khosravi,...*

Mahab Ghods Consulting Engineers Co. Rock mechanics expert 2002 – 2007
Dams & Hydropower Plants Dept.

Involved in various large dam and hydro-power plant projects:

- *Seymareh* concrete arch dam: 180 m height
- *Bakhtiari* concrete arch dam: 315 m height
- *Kooran-Boozan* embankment dam: 134 m height
- *Aghchai* embankment dam: 108 m height
- *Narmashir* embankment dam: 111 m height

Japan Atomic Energy Agency (JAEA) Research fellow 2001 – 2002
Applied/Rock Mechanics Laboratory

The University of Tokyo

- Stability analyses of tunnels in highly jointed rock masses using Micro mechanics-Based Continuum (MBC) Model”
- Seismic stability analyses of jointed rock mass at abutment of concrete arch dams

Mahab Ghods Consulting Engineers Co. Structural engineer 1996 – 1998
Dams & Hydropower Plants Dept.

- Division of Karkheh embankment dam and hydropower plant

Rastghamatan Construction Co. Design & Project manager 1995 – 1996

- *Shahid Beheshti* concrete bridge
- *Underway Azadi Ave.* concrete bridge

Tazand Consulting Engineerins Co. Structural engineer 1992 – 1995

- Pumping stations
- Silos
- Steel and concrete bridges
- Steel and concrete buildings

TEACHING COURSES

- Rock Mechanics 2003 – Now
- Continuum Mechanics and Plasticity Theory 2003 – Now
- Finite Element Method 2003 – 2006
- Soil Mechanics 1996 – 1998
- Foundation Engineering 1996 – 1998

HONOURS AND QUALIFICATIONS

- Monbusho scholarship from Japan for Ph.D. study in The University of Tokyo 1998
- Admitted in national test for Ph.D. study in abroad by governmental scholarship 1997
- 2nd rank in the national test for M.S. program in civil engineering 1992
- First rank in B.S. among 90 students in civil engineering, Tehran University 1992
- First rank in Diploma of Math. & Physics in high school 1987

SUPERVISED THESES

Ph.D. 3 (+3 current students)
Master 50 (+6 current students)

PUBLICATIONS

Books

1. Determination of the rigidity of Khorjini connections in steel structures of Iran by experimental study, Housing Foundation (Bonyade Maskan), Iran, 1992.
2. Calculation, Design and Construction of Steel Structures for Seismic Forces: Foundation & Connections, Housing Foundation (Bonyade Maskan), Iran, ISBN:964-308-006-4.
3. Design Tables for Typical Connections in Steel Structures, The ministry of Housing and Urban Development, Iran, 1994.
4. Fracture and Deformation of Materials: with Emphasis on Rock Mechanics, Tarbiat Modares University, 2014, ISBN: 978-600-5394-97-9.

Journal Papers

1. Alitalesh M, Naeimabadi M, Yazdani M, Investigation of Crack Growth in Rock-Like Brittle Material, *Modares Civil Engineering Journal*, Vol.18, No.4, Sep 2018, 143-155 (in Persian), <http://journals.modares.ac.ir/article-16-16952-fa.html>.
2. Afrazi M, Yazdani M, Alitalesh M, Fakhimi A, Numerical Analysis of Effective Parameters in Direct Shear Test by Hybrid Discrete-Finite Element Method, *Modares Civil Engineering Journal*, Vol.18, No.3, Jul 2018, 13-24 (in Persian), <http://journals.modares.ac.ir/article-16-20262-fa.html>.
3. Kim HM, Lee JW, Yazdani M, Tohidi E, Nejati HR, Park ES, Coupled Viscous Fluid Flow and Joint Deformation Analysis for Grout Injection in a Rock Joint, *Rock Mechanics and Rock Engineering*, Vol.51, No.2, 2018, 627-638, <https://doi.org/10.1007/s00603-017-1339-3>.
4. Shahraki Ghadimi A, Ghanbari A, Sabermahani M, Yazdani M, Effect of Soil Type on Nail Pull-out Resistance, *Proceedings of the Institution of Civil Engineers-Ground Improvement*, Vol.170 Issue 2, May 2017, 81-88, <https://doi.org/10.1680/jgrim.15.00038>.
5. Rahmani HR, Yazdani M, Yazdani M, Nikudel MR, Application of Taguchi Method on Optimization of Semi Structural Lightweight Concrete Composed of Pumice Aggregates, *Sharif Journal-Civil Engineering*, Vol.32.2, Issue 4.1, Winter 2017, 101-108 (in Persian), http://sjce.journals.sharif.edu/article_1070_en.html.
6. Baghi M, Yazdani M, Ardakani A, Determining the Elastic Properties of Lightweight Expanded Shale and Clay Aggregates of Iran, *Sharif Journal-Civil Engineering*, Vol.32.2, Issue 2.2, Summer 2016, 33-42 (in Persian), http://sjce.journals.sharif.edu/article_1027_en.html.
7. Ardehshiri-Lajimi S, Yazdani M, Assadi Langroudi A, A Study on the Liquefaction Risk in Seismic Design of Foundations, *Geomechanics and Engineering*, Vol.11, Issue 6, July 2016, 805-820, <https://doi.org/10.12989/gae.2016.11.6.805>.
8. Sharifi J, Nikudel MR, Yazdani M, Study of Interfacial Bond between Aggregate and Cement Paste in Concrete, *Modares Civil Engineering Journal*, Vol.16, No.1, Mar 2016, 209-218 (in Persian), <http://journals.modares.ac.ir/article-16-11223-fa.html>.
9. Yazdani M, Paseh H, Sharifzadeh M, Performance Comparisons of Bonding Box-Based Contact Detection Algorithms and a New Improvement Technique Based on Parallelization, *Engineering Computations*, Vol.33, Issue 1, Mar 2016, 7-27, <https://doi.org/10.1108/EC-05-2014-0102>.
10. Yazdandoust M, Yazdani M, Experimental Study on Combined effects of Microsilica Weighted Ratio Content, Fineness Modulus of Aggregate and Water-cement Ratio on Mechanical and Physical Properties of High Strength Concrete, *Research Journal of Recent Science*, Vol.4, Issue 12, Dec 2015, 7-16, <http://www.isca.in>.
11. Yazdani M, Mirzayee A, Determination of Normal and Shear Stiffness of Rock Joints using Back Analysis of Plate Load Test Results, Case Study: Bakhtiari Dam, *Sharif Journal-Civil Engineering*, Vol.31.2, Issue3.2, Summer 2015, 85-92 (in Persian), http://sjce.journals.sharif.edu/article_904_en.html.
12. Ardehshiri-Lajimi S, Yazdani M, Langroudi AA, Control of Fault Lay-out on Seismic Design of Large Underground Caverns, *Tunnelling and Underground Space Technology*, Aug. 2015, Vol.50, 305-316, <https://doi.org/10.1016/j.tust.2015.07.002>.
13. Yazdani M, Rabiei Z, Application of Numerical Modeling in Simulation of HDR Reservoir Behavior During Hydraulic Stimulation, *Sharif Journal-Civil Engineering*, Vol.30.2, Issue 4.2, Winter 2015, 91-100 (in Persian), http://sjce.journals.sharif.edu/article_847_en.html.
14. Molaali M, Yazdani M, Numerical Modeling of Hydraulic Fracturing in Oil Reservoirs with Extended Finite Element Method, *Sharif Journal-Civil Engineering*, Vol.30.2, Issue 4.1, Winter 2015, 3-11 (in Persian), http://sjce.journals.sharif.edu/article_824_en.html.

15. Yazdandoust M, Yazdani M, Experimental Study on Combined Effects of Microsilica Weighted Ratio Content, Fineness Modulus of Aggregates and Water-Cement Ratio on Mechanical and Physical Properties of Concrete, *Modares Civil Engineering Journal*, Vol.14, No.20, Nov 2014, 183-195 (in Persian), <http://journals.modares.ac.ir/article-16-11863-fa.html>.
16. Paseh H, Yazdani M, Sharifzadeh M, Evaluation and Improvement of Contact Detection Algorithms for Using in DEM in Rock Mechanics, *Modares Civil Engineering Journal*, Vol.14, No.3, Jan 2014, 43-60 (in Persian), <http://journals.modares.ac.ir/article-16-10641-fa.html>.
17. Ardakani A, Yazdani M, The Relation Between Particle Density and Static Elastic Moduli of Lightweight Expanded Clay Aggregates, *Journal of Applied Clay Science*, Vol.93-94, May 2014, 28-34, <https://doi.org/10.1016/j.clay.2014.02.017>.
18. Baghi M, Yazdani M, Evaluation of Mechanical Properties of Artificial Lightweight Aggregate Liapor with Different Diameters and Lightweight Concrete Made of Them, *Concrete Research, Seri 6th*, No.2, winter 2014, 39-46 (in Persian), https://jcr.guilan.ac.ir/article_852.html.
19. Mahdavi A, Yazdani M, Numerical Study of Hard Rock Brittle Behaviour on Deformation and The Plastic Zone around Deep Tunnels, *Sharif Journal-Civil Engineering*, Vol.29.2, Issue 2, Summer 2013, 87-98 (in Persian), http://sjce.journals.sharif.edu/article_719_en.html.
20. Paseh H, Yazdani M, Mahin Roosta R, Evaluation of Earth Dam Construction on Mitigation of Liquefaction Potential within Alluvial Foundation, *Modares Civil Engineering Journal*, Vol.13, No.3, Summer 2013, 27-35 (in Persian), <http://journals.modares.ac.ir/article-16-826-fa.html>.
21. Yazdandoust M, Yazdani M, Experimental Study on the Effect of Aggregate Fineness Modulus on Physical and Mechanical Properties of Concrete, *Modares Civil Engineering Journal*, Vol.13, No.2, Spring 2013, 161-172 (in Persian), <http://journals.modares.ac.ir/article-16-7065-fa.html>.
22. Yazdani M, Farshi A, Daryabari A, Siamak T, Application of Taguchi Method and Genetic Algorithm for Calibration of Soil Constitutive Models, *Journal of Applied Mathematics*, Volume 2013, Article ID 258721, 11 pages, <http://dx.doi.org/10.1155/2013/258721>.
23. Yazdani M, Azad A, Farshi A, Siamak T, Extended Mononobe-Okabe Method for Seismic Design of Retaining Walls, *Journal of Applied Mathematics*, Volume 2013, Article ID 136132, 10 pages, <http://dx.doi.org/10.1155/2013/136132>.
24. Kimata H, Hideyuki H, Yazdani M, Seismic Safety Evaluation of Concrete Arch Dams against Earthquake-Induced Failure of Jointed Rock Foundations (Japanese Title: 基礎岩盤の不連続面の進行性破壊を考慮したアーチ式コンクリートダムの耐震安全性評価), *Journal of Japan Society of Civil Engineers, Ser. A1 (Structural Engineering & Earthquake Engineering (SE/EE))*, Vol.69, No.4, 2013, I_9-I_19 (in Japanese), https://doi.org/10.2208/jscejsee.69.I_9.
25. Sharifi J, Nikudel MR, Yazdani M, Effect of Physical and Mechanical Properties of Aggregate on Concrete, *Journal of Iranian Association of Engineering Geology*, Volume 6, Number 1 & 2, Summer and Autumn 2013, 67-82, http://www.jiraeg.ir/article_68326_en.html.
26. Yazdani M, Ghahremani P, Determination of Bearing Capacity for Piles Using Systematic Numerical Analyses of Pile Load Testing based on Taguchi Method, *Sharif Journal-Civil Engineering*, Vol.2-28, Issue 4, Winter 2013, 39-51 (in Persian), http://sjce.journals.sharif.edu/article_684_en.html.
27. Yazdani M, Sasani M, Numerical Simulation of Frictional Behavior of Strike-Slip North Tabriz Fault Using Finite Element Method, *Modares Civil Engineering Journal*, Vol.12, No.2, Summer 2012, 71-83 (in Persian), <http://journals.modares.ac.ir/article-16-2830-fa.html>.
28. Hedayati J, Soltani Mohammadi M, Yazdani M, Buckling Behavior of Piles in Liquefiable Soils, *Quarterly Journal of Civil Engineering-Ferdowsi University of Mashhad*, Vol.23, No.2, Spring & Summer 2012, 1-20 (in Persian), <https://doi.org/10.22067/civil.v23i2.17003>.
29. Ardakani A, Yazdani M, Ghadami Tizabi SA, Experimental Study on the Effect of Large Scale Cavities on Mechanical Behavior of Rock Mass, *Iranian Journal of Mining Engineering*, Vol.7, Issue 17, Autumn 2013, 73-82 (in Persian), http://ijme.iranjournals.ir/article_2932_en.html.
30. Kimata H, Fujita Y, Horii H, Yazdani M, Dynamic Behavior of Concrete Gravity Dam on Jointed Rock Foundation During Large-Scale Earthquake. *Journal of Japan Society of Civil Engineers*, Vol.68, No. 4, 2012, I_891-I_898 (in Japanese), https://doi.org/10.2208/jscejsee.68.I_891.
31. Yazdani S, Yazdani M, Ahmadi MT, Importance of Joint Geometrical Parameters on the Safety of Concrete Arch Dam Abutments. *Modares Civil Engineering Journal*, Vol.11, No.1, Spring 2011, 27-39 (in Persian), <http://journals.modares.ac.ir/article-16-6642-fa.html>.

32. Yazdani M, Sharifzadeh M, Kamrani K, Ghorbani M, Displacement-Based Numerical Back Analysis for Estimation of Rock Mass Parameters in Siah Bisheh Powerhouse Cavern using Continuum and Discontinuum Approach, *Tunneling and Underground Space Technology*, Vol.28, March 2012, 41-48, <https://doi.org/10.1016/j.tust.2011.09.002>.
33. Yazdani M, Paseh H, Masjoodi M, Numerical Analysis of Dynamic Pore Water Pressure in Earth Dams under the Earthquake Loading. *Modares Civil Engineering Journal*, Vol.10, No.3, Autumn 2010, 91-103 (in Persian), <http://journals.modares.ac.ir/article-16-881-fa.html>.
34. Yazdani S, Yazdani M, 2D Numerical Study of the Stability of Concrete Arch Dams with Special Focus on the Role of Rock Joints and the Internal Flowing Water, *Journal of Iranian Association of Engineering Geology*, Vol.3, No.1&2, Summer and Autumn 2010, 71-82 (in Persian), http://www.jiraeg.ir/article_68219_en.html.
35. Yazdani S, Yazdani M, The Effects of Hydromechanical Behavior of Rock Joints on the Stability of Concrete Arch Dam Abutments, *Sharif Journal-Civil Engineering*, Vol.2-26, Issue 2, Autumn 2010, 69-78, (in Persian), http://sjce.journals.sharif.edu/article_14_en.html.
36. Ardakani A, Yazdani M, The Effect of Size on Mechanical Properties and Elastic Modulus of Structural Leca, *Journal of Iranian Association of Engineering Geology*, Vol.3, No.3&4, Winter and Spring 2010, 59-70 (in Persian), http://www.jiraeg.ir/article_68241_en.html.
37. Khandan Bakavoli M, Ahmadi MT, Yazdani M, Study on the Effect of Seepage in Jointed Rocks at Arch Dams Abutments, *Amirkabir Journal of Civil Engineering*, Winter 2010, Vol.41, No.2, 157-169 (in Persian), <http://dx.doi.org/10.22060/ceej.2010.297>.
38. Yazdani S, Yazdani M, Ahmadi MT, Evaluation of Geometrical Characteristics of Rock Joints on Hydraulic Behavior and Seepage through the Abutments of Concrete Arch Dams, *Iranian Hydraulic Association, Journal of Hydraulics*, Vol. 3, Issue 1-Serial Number 31, Spring 2008, 33-44 (in Persian), DOI: 10.30482/JHYD.2008.85447.
39. Yazdani M., Azad Ali, Reassessment of Mononobe-Okabe Method and Propose a Complementary Solution for Seismic Design of Retaining Structures, *Journal of Transportation Research*, Vol.4, Issue 2- Serial Number 11, Summer 2007, 157-172 (in Persian), http://www.trijournal.ir/article_11380_en.html.

Conference Papers

1. Influence of geotechnical parameters on seismic characteristics, *8th international seminar on earthquake prognostics, Tehran University, Iran, 1993.*
2. Yazdani M., Horii H. Seismic safety evaluation of concrete arch dams based on the shear failure of jointed rock mass at abutment. *3rd International Conference on Dam Engineering, 2002, March 20-22, Singapore, 341-348.*
3. Yazdani M., Horii H. The effects of mechanical properties of the rock joints at abutment on seismic safety of concrete arch dam. *ISRM Regional Symposium and 3rd Korea-Japan Joint Symposium on Rock Engineering- Problems and Approaches in Underground Construction, 2002, July 22-24, Korea.*
4. Yazdani M., Horii H. Application of damage indices for seismic safety assessment of arch dams against sliding and opening failure in jointed rock mass at abutment. *New Developments in Rock Mechanics, 2002, October 10-12, Shenyang, China, 411-416.*
5. Yazdani M., Hideyuki H. A numerical method for seismic safety evaluation of concrete arch dams against failure in jointed rock mass at abutment. *73rd Annual Meeting of ICOLD, 2005, May 1- 6, Tehran, Iran.*
6. Yazdani M., Solgi Kh. The landslide event in left bank of Seymareh dam project: the history, geotechnical conditions and remedy works, *22nd International congress on large dams, 2006, June 18-23, Barcelona, Spain.*
7. Yazdani M. Requirements for rock stress measurements in pressure tunnels of Seymareh dam project, submitted to *4th Asian rock mechanics symposium, 2006, November 8-10, Singapore.*
8. Yazdani M., Yazdani S. Evaluation of hydro-mechanical behavior of jointed rock mass on stability of concrete arch dam abutments, *11th Congress of the International Society for Rock Mechanics, 2007, July 9-13, Lisbon, Portugal.*
9. Erfani A., Yazdani M. Design of sheet piles in sand using numerical analyses, *60th Canadian Geotechnical Conference and the 8th Joint CGS/IAH-CNC Groundwater Conference, 2007, October 21-23, Ottawa, Canada.*
10. Yazdani M. Rock stress as a safety concern for design of pressure tunnels in Seymareh dam project. *75th Annual Meeting of ICOLD, 2007, June 24- 29, St.Petersburg, Russia.*
11. Yazdani S., Yazdani M., Erfani A. The effects of rock joint geometrical parameters on safety of concrete arch dam abutments, *60th Canadian Geotechnical Conference and the 8th Joint CGS/IAH-CNC Groundwater Conference, 2007, October 21-23, Ottawa, Canada.*
12. **Ardeshiri S., Yazdani M. Numerical Study of Fault Effects on Seismic Stability of Large Underground Caverns, 42nd U.S. Rock Mechanics Symposium, 2008, June 29 - July 2, San Francisco, USA.**
13. **Yazdani M., Rummel F. Rock Stress as a Safety Concern for Design of Pressure Tunnels in Seymareh Dam Project, 42nd U.S. Rock Mechanics Symposium, 2008, June 29 - July 2, San Francisco, USA.**
14. Fadaee M., Yazdani M., Azad A. Seismic Retrofit of Embankment Dams Based on Dynamic Nonlinear Analyses, *The 12th International Conference of International Association for Computer Methods and Advances in Geomechanics (IACMAG), 1-6 October, 2008, Goa, India.*
15. Yazdani M., Fadaee M., Eslami Haghighat A. Application of Screening Analyses for The Stability of Landslide in Seymareh Dam Project, *6th International Conference on Case Histories in Geotechnical Engineering, 2008, 11-16 August, Arlington, VA, USA.*
16. **Yazdani M., Kalantar Chahooki D., Deep Drilling Potentials in IRAN, Workshop on Rapid Response Drilling, 2008, 17-19 November, Tokyo, Japan.**
17. Kimata H., Horii H., Yazdani M. Dynamic Analysis of Crack Propagation in Concrete Gravity Dams with Jointed Rock Foundation, *Annual meeting of JSCE, 2009, 2-4 September, Fukuoka, Japan, (in Japanese).*
18. Kamrani K., Yazdani M. Numerical Back Analysis for Estimation of Rock Mass Parameters in Siah-Bisheh Powerhouse Cavern, *2nd International Conference on Computational Methods in Tunnelling, 2009, 9-11 September, Ruhr University Bochum, Germany.*
19. Kimata H., Fujita Y., Horii H., Yazdani M. Dynamic Crack Propagation Analysis of Concrete Gravity Dams with Jointed Rock Foundation, *3rd Greece-Japan Workshop on Seismic Design, Observation and Retrofit of Foundations, 2009, 22-23 September, Island of Santorini, Greece.*

20. Paseh H.R., Yazdani M., Mahin Roosta R. Seismic Improvement of Liquefiable Alluvial Foundation of Earth Dams by Vibro Replacement, *2nd Conference on Long Term Behavior of Dams, 2009, 12-13 December, Graz, Austria, 660-666.*
21. Khan Mohammadi H., Yazdani M., Maarefvand P. Stability Assessment of Jointed Rock Abutments of Concrete Arch Dam Using Distinct Element Method, *2nd Conference on Long Term Behavior of Dams, 2009, 12-13 December, Graz, Austria, 797-801.*
22. Rabiei Z., Yazdani M. Numerical Modeling of Hydraulic Stimulation in HDR Reservoirs by 2D Distinct Element Method, *World Geothermal Congress 2010, 25-29 April 2010, Bali, Indonesia.*
23. **Sasani M., Yazdani M. Numerical simulation of strike-slip faults based on stick-slip behavior of faults, *The 5th International Symposium on In-Situ Rock Stress, 2010, Beijing, China.***
24. **Sasani M., Yazdani M., Numerical simulation of strike-slip faults based on slip weakening friction law, *4th International Conference on Geotechnical Engineering and Soil Mechanics, Tehran, Iran (ICGESM 2010).***
25. Kimata H., Fujita Y., Okhovat R., Yazdani M. Preliminary Study on Earthquake-induced Progressive Failure of Jointed Rock Foundation Supporting Arch Dam, *4th Greece-Japan Workshop on Seismic Design of Foundations, 2011, Japan.*
26. Rasehk M., Yazdani M. A Study of Grout Properties in soil nails Pullout Tests, *9th International Congress on Civil Engineering, May 8-10, 2012, Isfahan University of Technology, Isfahan, Iran 1391/12/18.*
27. Riazi, E., Yazdani, M., Alitalash, M., Shafiee, M.B. The Assessment of crack surface friction on crack tip's stress intensity factor (SIF) using XFEM, *In 48th US Rock Mechanics / Geomechanics Symposium, Minneapolis, MN, USA, 1-4 June 2014.*

Conference Papers (in Persian)

65 papers published in different national conferences in Persian.