

Dr. Hasan Ghasemzadeh

Ghasemzadeh@kntu.ac.ir



K.N. Toosi University of Technology
Geomechanical Engineering Group

Status: Married

Children: Two

Date of Birth: 1970

LANGUAGE

- English: current, writing, talking

- French: current, writing, talking

- Persian: mother language

- Arabic: current

EDUCATION

Ph. D. in *Geotechnics* (Multiphase Modeling), Ecole des Ponts ParisTech, (Navier-CERMES), Paris, France

M. Sc. in *Geotechnical Engineering* (Seismic Coefficient in Pseudo Static Analyses), K. N. Toosi University of Technology, Tehran, Iran

B. Sc. in *Civil Engineering*, Civil Engineering Department, University of Science & Technology, Tehran, Iran

EXPERINCE

- Senior expert in Geomechanical Engineering.

2024 : Responsible for the transfer of Iran University of Industries and Mines to K.N. Toosi University of Technology

2021 to 2024: President of Iran Petroleum Geomechanics Association.

2018 to 2024: President of Petroleum Industry Productivity Research Center (PIPRC)

2020 to 2021: Board member of research and technology fund of Talashgaran Eghtesad Paydar (TOP)

2018 to 2022: Board Member of Energy and Water Resources Development Company

- Commercial and International Affairs Manager

- Dam, Tunnel and Building projects

2014 to 2018: Mahan Industries and Mines Development Corporation

- Commercial and International Affairs adviser

- Bonab and Baft Steel Complex

- Gole Gohar Iron Mine, Anomaly 5

- Dar Aloo and Chah Firouz Copper Concentration Plants

2014: Board Member and Vice president of Taraz Pey Riz(TPR) civil Construction Company

2011- 2014: General manager of Gostaresh Steel Industries Company (Copper and Steel making projects),

- Shadegan and Esfarayen Steel Complex

- Gohar Zamin Copper Concentration Plants

- Chehelkoureh Copper Project

2008 -2011: Deputy of executive and engineering of Canymes company (Copper and Steel making projects' manager)

- Miduk Oxide Heap Leach Plant

- Sarcheshmeh paste thickeners

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- Sirjan steel complex
- Jiroft-Sargaz copper project

2006-2007: Consultant

- High story building designer
- Design control of 25 story buildings under construction (13 residential buildings)
- Design of 15 story building on Pasdaran Street under construction (shop center and multi story parking)

1995 – 2001: Hydro mechanical designer & manager in Sadid Industrial Group

- Project manager of repair & improvement of Jiroft dam bottom outlet equipment
- Managing and supervision in manufacture & erection of hydro- mechanical equipment of Kurun III dam and Masjed-E-Soleiman Flap gates & its steel lining
- Control of hydro-mechanical equipment of Barzoo dam
- Design of Shahid Abbasspoor dam bifurcation
- Design of Karkheh Spillway Radial Gate

1994: Mahab Ghodss Consulting Engineering Company

- Embankment dam designer
- Design of soil structure of Shurak dam, Iran.

ARTICLES

Orcide : <https://orcid.org/0000-0001-6267-9619>

Scopus : <https://www.scopus.com/authid/detail.uri?authorId=36905869800>

Googlescholar : <https://scholar.google.com/citations?user=-bWgAMMAAAAJ&hl=en>

Web of Science: <https://www.webofscience.com/wos/author/record/1537734>

Academia : <https://kntu.academia.edu/HGhasemzadeh>

Elmnet : <https://elmnet.ir/eid/D-0005-7503>

COURSES TAUGHT

- | | |
|--|------------------------------|
| - Petroleum Geomechanics | - Heat and Mass Transfer |
| - Seismic Geophysics | - Rock Mechanics |
| - Advanced Engineering Mathematics I & II | - Soil/Structure Interaction |
| - Geotechnical Earthquake Engineering | - Soil Mechanics |
| - Excavation Pits and Support Systems | - Research Methodology |
| - Numerical Methods in Geomechanics | - Tunnel Engineering |
| - Unsaturated Soils Mechanics | - Foundation Engineering |
| - Advanced Technology in Building Industry | - Soil Dynamics |

BOOKS

- [Iron and Steel Industry from Mine to Product \(in Persian\)](#), 2013
- [Geomechanics and Optimal Extraction from Reservoir \(in Persian\)](#), 2024
- [Modern Buildings & Renewable Energy – Thermal Piles \(in Persian\)](#), 2020
- [Introduction to Iron and Steel Industry \(in Persian\)](#), 2013
- [Seepage modeling in saturated and unsaturated soils \(in Persian\)](#), 2010

CONTACT

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PUBLICATIONS

Journal papers

1. Changizi, Foad; Ghasemzadeh, Hasan; Ahmadi, Shervin, 2022. Evaluation of strength properties of clay treated by nano-SiO₂ subjected to freeze–thaw cycles. *Road Materials and Pavement Design*. 23 (6), 1221-1238.
2. Ghasemzadeh, Hasan; Modiri, Farzaneh; Darvishan, Ehsan, 2022. A novel clean biopolymer-based additive to improve mechanical and microstructural properties of clayey soil. *Clean Technologies and Environmental Policy*. 24 (3), 969-981
3. Dehghanzadeh-Najmabad, H; Hamzehei-Javaran, S; Ghasemzadeh, H; Karbakhsh, A, 2022. A new insight into the analysis of plane elasticity with coupling of numerical manifold and boundary element methods. *Engineering Analysis with Boundary Elements*, 133, 376-384.
4. Ghasemzadeh, Hasan; Mehrpajouh, Aida; Pishvaei, Malihe, 2022. Compressive Strength of Acrylic Polymer-Stabilized Kaolinite Clay Modified with Different Additives. *ACS Omega*. 7, 19204–19215.
5. Changizi, Foad; Razmkhah, Arash; Ghasemzadeh, Hasan; Amelsakhi, Masoud, 2022. Behavior of geocell-reinforced soil abutment wall: A physical modeling. *Journal of Materials in Civil Engineering*. 34 (3), 04021495.
6. Changizi, Foad; Razmkhah, Arash; Ghasemzadeh, Hasan; Amelsakhi, Masoud, 2021. Effect of oil-contamination on behavior of geocell-reinforced soil abutment wall. *Journal of Petroleum Geomechanics*, pp. 109-135.
7. Ghasemzadeh, H., Babaei, S., Tesson, S., Azamat, J., Ostadhassan, M., 2021. From excess to absolute adsorption isotherm: The effect of the adsorbed density. *Chemical Engineering Journal*, 425, p.131495. <https://doi.org/10.1016/j.cej.2021.131495>.
8. Ahmadi, S., Ghasemzadeh, H., Changizi, F., 2021. Effects of A low-carbon emission additive on mechanical properties of fine-grained soil under freeze-thaw cycles. *Journal of Cleaner Production*, 304, p.127157. <https://doi.org/10.1016/j.jclepro.2021.127157>.
9. Mehrpajouh, A., Ghasemzadeh, H., Pishvaei, M., 2021. Effect of the Glass Transition Temperature of Acrylic Polymers on Physical and Mechanical Properties of Kaolinite Clay and Sandy Soil, *Journal of Materials in Civil Engineering*, 33(5), 04021062. [https://doi.org/10.1061/\(ASCE\)MT.1943-5533.0003651](https://doi.org/10.1061/(ASCE)MT.1943-5533.0003651).
10. Ghasemzadeh, H., Mohsenzadeh, P., Shabani, K., 2021. Development of a four-node quadrilateral element-based high order numerical manifold method without linear dependency, *International Journal for Computational Methods in Engineering Science and Mechanics*, pp.1-19. <https://doi.org/10.1080/15502287.2021.1889715>.
11. Changizi, F., Ghasemzadeh, H., Ahmadi, S., 2021. Evaluation of strength properties of clay treated by nano-SiO₂ subjected to freeze–thaw cycles. *Road Materials and Pavement Design*, pp.1-18. <https://doi.org/10.1080/14680629.2021.1883466>.
12. Ghasemzadeh, H., Mehrpajouh, A., Pishvaei, M., 2021. Laboratory analyses of Kaolinite stabilized by vinyl polymers with different monomer types. *Engineering Geology*, 280, p.105938. <https://doi.org/10.1016/j.enggeo.2020.105938>.
13. Ahmadi, S., Ghasemzadeh, H., Changizi, F., 2021. Effects of thermal cycles on microstructural and functional properties of nano treated clayey soil. *Engineering Geology*, 280, p.105929. <https://doi.org/10.1016/j.enggeo.2020.105929>.
14. Ghasemzadeh, H., Modiri, F., 2020. Application of novel Persian gum hydrocolloid in soil stabilization. *Carbohydrate Polymers*, 246, p.116639. <https://doi.org/10.1016/j.carbpol.2020.116639>.
15. Ghasemzadeh, H., Mehrpajouh, A., Pishvaei, M., Mirzababaei, M., 2020. Effects of Curing Method and Glass Transition Temperature on the Unconfined Compressive Strength of Acrylic Liquid Polymer-Stabilized Kaolinite, *Journal of Materials in Civil Engineering*, 32(8), 04020212. [https://doi.org/10.1061/\(ASCE\)MT.1943-5533.0003287](https://doi.org/10.1061/(ASCE)MT.1943-5533.0003287).

16. Ghasemzadeh, H., Akbari, F., 2020. Investigation of Soil Active Wedge Angle with Linear Matric Suction Distribution Below the Footing, *International Journal of Civil Engineering*, 18(2), 161-168, <https://doi.org/10.1007/s40999-019-00426-1>.
17. Ghasemzadeh, H., 2019. Multiscale multiphysic mixed geomechanical model for deformable porous media considering the effects of surrounding area. *Journal of Petroleum Geomechanics*, 3(1), 79-99.
18. Ghasemzadeh, H., Pasand, M.S., 2019. An elastoplastic multiscale, multiphysics mixed geomechanical model for oil reservoirs using adaptive mesh refinement methods. *International Journal for Multiscale Computational Engineering*, 17(4). 385-409. DOI: 10.1615/IntJMultCompEng.2019029774.
19. Ghasemzadeh, H., Akbari, F., 2019. Determining the bearing capacity factor due to nonlinear matric suction distribution in the soil, *Canadian Journal of Soil Science*, 99(4), pp. 434-446. <https://doi.org/10.1139/cjss-2019-0071>.
20. Sadrnejad, S.A., Ghasemzadeh, H., Khodaei Ardabili A., 2019. A Finite Element Model for Simulating Flow around a Well with Helically Symmetric Perforations, *Journal of Engineering Geology*, 12(5), 159-188.
21. Ghasemzadeh, H., Pasand, M.S., 2019. Modeling of Oil Transport in Porous Media Using Multiscale Method with Adaptive Mesh Refinement, In: Ferrari A., Laloui L. (eds) *Energy Geotechnics. Springer Series in Geomechanics and Geoengineering*. Springer, 0(217729), pp.475-485. https://doi.org/10.1007/978-3-319-99670-7_59.
22. Ghasemzadeh, H., Pasand, M. S., Shamsi, M.M., 2018. Experimental study of sulfuric acid effects on hydro-mechanical properties of oxide copper heap soils, *Minerals Engineering*, 117, pp.100-107. <https://doi.org/10.1016/j.mineng.2017.12.010>.
23. Ghasemzadeh, H., Tarzaban, M., Hajitaheriha, M. M., 2018. Numerical Analysis of Pile–Soil–Pile Interaction in Pile Groups with Batter Piles, *Geotechnical and Geological Engineering*, 36(4), 2189-2215. <https://doi.org/10.1007/s10706-018-0456-4>.
24. Safehian, H., Rajabi, A.M., Ghasemzadeh, H., 2018. Effect of diesel-contamination on geotechnical properties of illite soil, *Engineering Geology*, 241, pp.55-63. <https://doi.org/10.1016/j.enggeo.2018.04.020>.
25. Taheri, E., Sadrnejad, A., Ghasemzadeh, H., 2017. Application of M3GM in a Petroleum Reservoir Simulation, *Journal of Petroleum Science and Technology*, 7(3), 33-46. DOI: 10.22078/IPST.2017.801.
26. Ghasemzadeh, H., Sojoudi, M.H., Ghoreishian, S. A., Karami, M.H., 2017. Elastoplastic model for hydro-mechanical behavior of unsaturated soils, *Soils and Foundations*, 57(3), pp. 371-383. <http://dx.doi.org/10.1016/j.sandf.2017.05.005>.
27. Ghasemzadeh, H., Tabaiyan, M., 2017. The Effect of Diesel Fuel Pollution on the Efficiency of Soil Stabilization Method, *Geotech. Geol. Eng.*, 35(1), pp. 475-484. <https://doi.org/10.1007/s10706-016-0121-8>.
28. Javadi, M., Ghasemzadeh, H., 2017. Wavelet analysis for ground penetrating radar applications: A case study, *Journal of Geophysics and Engineering*, 14(5), pp. 1189-1202. <https://doi.org/10.1088/1742-2140/aa7303>.
29. Ghoreishian, S.A., Sadrnejad, S.A., Ghasemzadeh H., 2017. A hybrid numerical model for multiphase fluid flow in a deformable porous medium, *Applied Mathematical Modelling*, 45, pp. 881-899. <https://doi.org/10.1016/j.apm.2017.01.042>.
30. Taheri, E., Sadrnejad, S.A., Ghasemzadeh, H., 2015. Multiscale geomechanical model for a deformable oil reservoir with surrounding rock effects, *International Journal for Multiscale Computational Engineering*, 13(6), 533-559. DOI: 10.1615/IntJMultCompEng.2015014333.
31. Rahimi, E., Ghasemzadeh, H., 2015. A new algorithm to determine optimum cut-off grades considering technical, economical, environmental and social aspects, *Resources Policy*, 46, 51-63. <http://dx.doi.org/10.1016/j.resourpol.2015.06.004i>.
32. Merati, A., Ghasemzadeh, H., Astaneh, S.M., 2015. Determining Slope Stability by Rigid Finite Element Method and Limit Analysis Methods, *Journal of Novel Applied Sciences*, 4(5), 579-589.

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33. Jamshidzadeh, Z., Tsai, F.T.C., Ghasemzadeh, H., Mirbagheri, S.A., Barzi, M.T. Hanor, J.S., 2015. Dispersive thermohaline convection near salt domes: a case at Napoleonville Dome, southeast Louisiana, USA. *Hydrogeology Journal*, 23(5), pp.983-998. <https://doi.org/10.1007/s10040-015-1251-4>.
 34. Rahimi, E., Oraee, K., Shafahi, Z.A., Ghasemzadeh, H., 2015. Determining the optimum cut-off grades in sulfide copper deposits. *Archives of Mining Sciences*, 60(1). 313-328. DOI: 10.1515/amsc-2015-0021.
 35. Ghasemzadeh, H., Ramezanpour, M.A., Bodaghpour, S., 2014. Dynamic high order numerical manifold method based on weighted residual method, *International Journal for Numerical Methods in Engineering*, 100(8), start page 596, DOI: 10.1002/nme.4752.
 36. Rahimi, E., Oraee, K., Tonkaboni, Z.A.S., Ghasemzadeh, H., 2015. Considering environmental costs of copper production in cut-off grades optimization. *Arabian Journal of Geosciences*, 8(9), pp.7109-7123. <https://doi.org/10.1007/s12517-014-1646-x>.
 37. Rahimi, E., Oraee, K., Shafahi, Z., Ghasemzadeh, H., 2015. Considering environmental costs of copper production in cut-off grades optimization, *Arabian Journal of Geoscience*, 8(9), 7109-7123. DOI: 10.1007/s12517-014-1646-x.
 38. Sadrnejad, S.A., Ghasemzadeh, H., Taheri, E., 2014. Multiscale multiphysic mixed geomechanical model in deformable porous media, *Journal for Multiscale Computational Engineering*, 12(6), 529-547. DOI: 10.1615/IntJMultCompEng.2014011296.
 39. Ghasemzadeh, H., Rahmani Samani, H., Mirtaheri, M., 2013. Vibration analysis of steel structures including effect of panel zone flexibility based on energy method, *Earthquake engineering and engineering vibration*, 12(4), 587-598. <https://doi.org/10.1007/s11803-013-0199-4>.
 40. Ghasemzadeh, H., Ghoreishian Amiri S.A., 2013. A hydro-mechanical elastoplastic model for unsaturated soils under isotropic loading conditions, *Computers and Geotechnics*, 51, 91-100. <https://doi.org/10.1016/j.compgeo.2013.02.006>.
 41. Ghoreishian Amiri, S.A., Sadrnejhad, S.A., Ghasemzadeh, H., Montazari, G.H, 2013. Application of control volume based finite element method for solving the black-oil fluid equations, *Petroleum Science*, 10(3), 361-372. <https://doi.org/10.1007/s12182-013-0284-3>.
 42. Mohammadi, S., Valizadeh, N., Ghorashi, S.S., Shojaee, S., Ghasemzadeh, H., 2012. Analysis of thin plates by a combination of isogeometric analysis and the Lagrange multiplier approach. *Computational Methods in Civil Engineering*, 3(2), pp. 47-66.
 43. Khosravi, E., Ghasemzadeh, H., Sabour, M.R, Yazdani H., 2013. Geotechnical properties of gas oil-contaminated kaolinite, *Engineering Geology*, 166, 11-16. <https://doi.org/10.1016/j.enggeo.2013.08.004>.
 44. Jamshidzadeh, Z., Tsai, F.T.C., Mirbagheri, S.A. and Ghasemzadeh, H., 2013. Fluid dispersion effects on density-driven thermohaline flow and transport in porous media. *Advances in Water Resources*, 61, pp.12-28. <http://dx.doi.org/10.1016/j.advwatres.2013.08.006>.
 45. Ghasemzadeh, H., Abounouri, A.A., 2013. Compressional and shear wave intrinsic attenuation and velocity in partially saturated soils, *Soil Dynamics Earthquake Engineering*, 51, pp.1-8, <http://dx.doi.org/10.1016/j.soildyn.2013.03.011>.
 46. Ghasemzadeh, H., Abounouri, A.A., 2013. The Effect of Dynamic Permeability on Velocity and Intrinsic Attenuation of Compressional Waves in Sand, *Civil Engineering Infrastructures Journal*, 46(2), 221-231.
 47. Ghasemzadeh, H., Abounouri, A.A., 2012. Effect of subsurface hydrological properties on velocity and attenuation of compressional and shear wave in fluid-saturated viscoelastic porous media, *Journal of Hydrology*. 460,110-116. <https://doi.org/10.1016/j.jhydrol.2012.06.051>.
 48. Asgarian, B., Shokrgozar, H.R., Shahcheraghi, D., Ghasemzadeh, H., 2012. Effect of soil pile structure interaction on dynamic characteristics of jacket type offshore platforms, *Coupled Systems Mechanics*, 1(4), 381-395.

49. Sadrnejhad, S.A., Ghasemzadeh, H., Ghoreishian Amiri, S.A., Montazari, G.H, 2012. A control volume based finite element method for simulating incompressible two-phase flow in heterogeneous porous media and its application to reservoir engineering, *Petroleum Science*, 9(4), 485-497. <https://doi.org/10.1007/s12182-012-0233-6>.
50. Salarian, M., Mirzaghobanali, A., Ghasemzadeh, H., Sadeghian, S., 2012. Well Bore Stability Using a New Dynamic Model, *Petroleum Science and Technology*. 30(19), 2066-2075. <https://doi.org/10.1080/10916466.2010.512891>.
51. Javadi, M., Ghasemzadeh, H., Hasibi, H., Rahimi, S., 2012. Real Time Dielectric and Water Content Measurement using Capacitance Method, *World academy of science, engineering and technology*, 62, pp. 1003-1010.
52. Ghasemzadeh, H., Abdollahian, S., Shabanzad, H.R., Bazaz zadeh, R., 2011. Investigation on influence of soil properties on Transport of Escherichia coli in saturated soils, *International Journal of Earth Sciences and Engineering*, 4(6), pp. 989-993.
53. Ghasemzadeh, H., Akbari Jalalabad E., 2011. Computing the compressive strength of carbon nanotube/cement composite, *International journal of civil engineering*. 9(3), 223-229. <http://ijce.iust.ac.ir/article-1-490-en.html>.
54. Mirzaghobanali, A., Fathianpour, N., Ghasemzadeh, H., Salarian, M., 2011. A New Approach in Casing Collapse Design Using the Geomechanical Model and Heaviest Drilling Fluid, *Petroleum Science and Technology*, 29(18), 1948-1962. <https://doi.org/10.1080/10916461003663024>.
55. Ghasemzadeh, H., Alibeikloo, M., 2011. Pile–soil–pile interaction in pile groups with batter piles under dynamic loads. *Soil Dynamics Earthquake Eng*, 31(8), 1159-1170. <https://doi.org/10.1016/j.soildyn.2011.04.005>.
56. Ghasemzadeh, H., 2008. Heat and Contaminant Transport in unsaturated Soil, *International journal of civil engineering*. 6(2), 90-107.
57. Gatmiri, B., Ghasemzadeh, H., 2006. Thermo-hydro-chemo-mechanical coupling in environmental geomechanics, *ASCE Geotechnical special publication, unsaturated soils*. 2(147), 2512-2522. [https://doi.org/10.1061/40802\(189\)214](https://doi.org/10.1061/40802(189)214).

CONFERENCE

1. Zand, T., Gorszczyk, A., Gholami, A., Ghasemzadeh, H., and Malcolm, A., 2022, Nonlinear migration based on RTM by shifted TV regularization. SEG 2022 Conference, Denver, 27-30 August 2022.
2. Zand, T., Gholami, A., Ghasemzadeh, H., and Malcolm, A., 2021, A new regularization method for reverse time migration, The 11th ISAV2021 International conference on acoustics and vibration, Tehran, Iran.
3. Safehian H., Rajabi AM., Ghasemzadeh H., 2019, Microscopic properties of diesel-contaminated illite soil, The International Conference on Innovative Applied Energy (IAPE'19), Oxford, UK.
4. A. Iravani, H. Ghasemzadeh M. J. Valadanzouj, 2018, A Modelling of surface subsidence induced by tunnelling using Artificial Neural Network, ITA-AITES World Tunnel Congress, WTC2018.
5. Ghasemzadeh H., Harif Bilondi Z., 2017, Investigation of necessity of providing fully coupled thermo-hydro-mechanical models for fractured reservoirs, 2nd National Conference on Petroleum Geomechanics, National Iranian Oil Company, Exploration Directorate, Tehran, Shahid Beheshti University, Tehran, Iran, Jan, 24-26.
6. Ghasemzadeh H., Karimi H., 2015, Numerical Manifold Method: Theory and Application in One-Dimensional Dynamic Contact Problems, 3th International Congress on Civil Engineering , Architecture, and Urban Development, 29-31, Shahid Beheshti University , Tehran, Iran.
7. Asadi Fallah, J., Maleki, V., Ghasemzadeh H., 2015, Effects Of Fling Step And Forward Directivity On Seismic Responses of Soil Sites, 7th International Conference of Seismology and Earthquake Engineering, 18-21, International Institute of Earthquake Engineering and Seismology (IIEES), Tehran, Iran.
8. Sadrnejhad S.A., Ghasemzadeh H., Taheri E., 2015, M3GM Application in petroleum reservoir simulation, 12-14, International Convention Center of RIPI, Tehran, Iran.
9. Ghasemzadeh H., Javadi M., 2014, Cavity detection with Ground Penetration Radar using finite difference time domain simulation, 1st national Conference on Ground Penetration Radar, 7-9, Mine Faculty, Bahonar University, Kerman, Iran.
10. Ghasemzadeh H., Abounouri A.A., 2013, The influence of grains contact on compressional waves attributes in saturated porous media, 21st Annual International Conference on Mechanical Engineering-ISME2013, 7-9, School of Mechanical Eng., K.N. Toosi University, Tehran, Iran.
11. Sadrnejhad S.A., Ghasemzadeh H., Taheri E., 2013, Multiscale Advance Features in Modeling Oil Transport in Porous Media, 21st Annual International Conference on Mechanical Engineering-ISME2013, 7-9, School of Mechanical Eng., K.N. Toosi University, Tehran, Iran.
12. Ghoreishian Amiri S.A., Sadrnejhad S.A., Ghasemzadeh H., Montazari G.H, 2013, Approximation of Nonlinear Terms in the Pressure-Based Solution of Multiphase Flow Equations in Porous Media, 21st Annual International Conference on Mechanical Engineering-ISME2013, 7-9, School of Mechanical Eng., K.N. Toosi University, Tehran, Iran.
13. Ghasemzadeh H., Zeinali E., Shabanzad H.R., 2013, Soil uncertainty effect assessment on confinement-convergence urban tunnel design method with emphasis on different main alluvium of Tehran, Asian Conference on Civil, Material and Environmental Sciences, Nov 7-9th, ACCMES2013, Osaka, Japan.
14. Ghasemzadeh H., Abounouri A.A., 2012, Full frequency-range wave propagation and attenuation in fluid saturated porous media, 9th International Congress on Civil Engineering, Isfahan University of Technology (IUT), Isfahan, Iran, May 8-10.

15. Ghasemzadeh H., Irvani A., Gholami M., 2012, Effect of input parameters uncertainty on tunnel design using Monte Carlo simulation method, ITA-AITES World Tunnel Congress & 38th General Assembly WTC 2012, Bangkok, Thailand, May 18-23.
16. Ghorashi S.Sh., Valizadeh N., Mohammadi S., Ghasemzadeh H., Shojaee S., 2011, Enhancement of Isogeometric Analysis Method for Analyzing 2D Cracked Problems Using Extrinsic Enrichment Function, 2nd International Engineering Mechanics and Materials Specialty Conference, Ottawa, Ontario, June 14-17.
17. Valizadeh N., Ghorashi S.Sh., Mohammadi S., Shojaee S., Ghasemzadeh H., 2011, An Improved Isogeometric Analysis Using the Lagrange Multiplier Method, XFEM 2th European Conference on extended Finite Element United Kingdom, Cardiff, June 29-30.
18. Ghasemzadeh H., Abdi, M.R., Ganjian, N., Shakiba Nia, K., 2010, A methodology for estimation of soil water characteristic curve for unsaturated cohesive soils, Linnaeus ECO-TECH '10 Kalmar, Sweden.
19. Ghasemzadeh H., Alibeikloo M., 2010, Interaction of Pile-Soil-Pile in Battered Pile Groups under Statically Lateral Load, 4th International Conference on Geotechnical Engineering & Soil Mechanics, Tehran, Iran.
20. Ghasemzadeh H., Moeen Sadat, M., 2010, Upper Bound Solution for Ultimate Bearing Capacity with A Non-Linear Hoek–Brown Failure Criterion, 4th International Conference on Geotechnical Engineering & Soil Mechanics, Tehran, Iran.
21. Ghasemzadeh H., Javadi, M., 2010, Ground Penetrating Radar for Fractured Rocks, 4th International Conference on Geotechnical Engineering & Soil Mechanics, Tehran, Iran.
22. Ghasemzadeh H., Alibeikloo M., 2010, Interaction of Pile-Soil-Pile in Battered Pile Groups under Dynamic Axial Load, 14ecee2010-maghdoonieh.
23. Ghasemzadeh H., Samani Rahmani H., 2010, Estimating frequency of vibration for tubular tall buildings, 14ecee2010-maghdoonieh.
24. Valinejad N., Ghasemzadeh H., 2010, Coupled hydromechanical behavior of jointed rocks in the study of HTPF tests, The 5th International Symposium on In-situ Rock Stress, August 25-27, Beijing, China.
25. Ghasemzadeh H. and Akbari Jalalabad E. 2010, Prediction the compressive strength of CNTs/cement composite by analytical method, 3rd Conference on Nanostructures, March 10-12 Kish Island, Iran.
26. Ghasemzadeh H. and Ramezanpour M.A. 2008, Contact detection considering force direction in discontinues deformation analysis, ISRM International Symposium, 5th Asian Rock Mechanics Symposium (ARMS5).
27. Ghasemzadeh H. and Ramezanpour M.A. 2008, Influence of load direction on parallel fractured rock stress and strain, ISRM International Symposium, 5th Asian Rock Mechanics Symposium (ARMS5).
28. Valinejad N. Ghasemzadeh H. and Pahlavani B. 2008, Interpretation of hydraulic fracturing pressure-time records to evaluate in-situ stress measurement parameters, ISRM International Symposium, 5th Asian Rock Mechanics Symposium (ARMS5).
29. Gatmiri B. Ghasemzadeh H. 2006, Thermo-hydro-chemo-mechanical coupling in environmental geomechanics, International Conference USA, ASCE Geotechnical special publication.
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