



Amirkabir University of Technology
(Tehran Polytechnic)



SEYED MOHAMMAD REZA IMAM

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Department of Civil and Environmental
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h-index (Scopus):
7

Citations (Scopus):
212

Supervised PhD Theses

| # | Thesis title | By | Date |
|---|---|---|--------------|
| 1 | Study of the effect of Section Geometry on the Cyclic Lateral Behavior of Piles in Sand using model testing | Anvar Faresghoshooni & Seyed Mohammad Reza Imam | October 2021 |

Supervised MSc Theses

| # | Thesis title | By | Date |
|---|---|---|----------------|
| 1 | Technical and economic evaluation of the foundation of storage tanks at oil terminals on coastal soft soils | Fahime Heydari & Seyed Mohammad Reza Imam | September 2021 |
| 2 | Numerical Analysis of Groups of Stone Columns in Unsaturated Soils | Hosein Poursaei & Seyed Mohammad Reza Imam | February 2021 |
| 3 | Presenting Optimum Design Method for Composite Walls Including Nailing and Anchorage with Different Depths | Parisa Khodabakhsh & Seyed Mohammad Reza Imam | January 2021 |
| 4 | Numerical study of the behavior of composite soil nail-anchor walls under earthquake loading | Hamzeh Sadeghi & Seyed Mohammad Reza Imam | October 2020 |
| 5 | Experimental study of critical state parameters of unsaturated granular soils under constant suction | Nasim Rezaei & Seyed Mohammad Reza Imam | September 2020 |

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| 6 | Experimental Investigation of Group of Encased Stone Column in Unsaturated Soil | Mohammadmasoud Farivar & Seyed Mohammad Reza Imam | August 2020 |
| 7 | Numerical Modeling of Encased Stone Columns Group Under Vertical Loads | Amir Hossein Ebrahimi Poor & Seyed Mohammad Reza Imam | February 2020 |
| 8 | experimental investigation of the behavior of encased stone columns in unsaturated soils | Jamshid Yelghi & Seyed Mohammad Reza Imam | September 2019 |
| 9 | Analysis of soil subsidence due to changes in ground water level in unsaturated soils | Reza Mohammadi & Seyed Mohammad Reza Imam | April 2019 |
| 10 | Determination of Optimum Combination of Combined Soil Nail-Anchor Walls | Hooman Hashemi & Seyed Mohammad Reza Imam | February 2019 |
| 11 | Measuring the required parameters for calculation of soil subsidence in unsaturated soil | Mina Mofrad & Seyed Mohammad Reza Imam | February 2019 |
| 12 | Experimental study of the drained behavior of clayey sand mixtures | Marjan Jafari & Seyed Mohammad Reza Imam | March 2018 |
| 13 | Modeling of gypsum and anhydride aggregates dissolution under different hydraulical factors | Amin Mahmoodi & Seyed Mohammad Reza Imam | February 2018 |
| 14 | Numerical analysis of the effect of piles cross section for piles installed in granular soils on their behavior under cyclic loading | Abolfazl Ahmadi & Seyed Mohammad Reza Imam | February 2018 |
| 15 | Numerical investigation of the behavior of stone columns in unsaturated soils | Amir Reza Fotovvat & Seyed Mohammad Reza Imam | November 2017 |
| 16 | Experimental study of anisotropic behavior of sand-clay mixtures under different stress path | Mehdi Zahedpour & Seyed Mohammad Reza Imam | February 2017 |
| 17 | Modeling of the behavior of sand-clay mixtures using a critical state model | Mohsen Zarei & Seyed Mohammad Reza Imam | February 2017 |
| 18 | Study of the stability and deformation of deep combined soil nail-anchor walls for use in their optimum design | Marziyeh Salajegheh & Seyed Mohammad Reza Imam | October 2016 |
| 19 | Analysis of the behavior of Siah Bisheh CFRD and comparision with results of dam instrumentation | Ali Reza Nouri & Seyed Mohammad Reza Imam | September 2016 |
| 20 | Analysis of the behavior of soil nail walls under seismic loading | Milad Saberifar & Seyed Mohammad Reza Imam | June 2016 |
| 21 | Modeling the behavior of cemented sands using critical state soil mechanics | Hadis Jebalbarezzi Hookerdi & Seyed Mohammad Reza Imam | February 2016 |
| 22 | determination of bearing capacity of shallow foundations on unsaturated soils using numerical analysis | Maryam Marzban & Seyed Mohammad Reza Imam | February 2016 |
| 23 | experimental investigation of behavior of stone columns in unsaturated soils | Sajjad Vaseghi Maghvan & Seyed Mohammad Reza Imam | February 2016 |
| 24 | stability calculation of soil walls using upper bound method of limit analysis | Alireza Shayan & Seyed Mohammad Reza Imam | February 2016 |
| 25 | numerical analysis of slopes mode of unsaturated soil | Pegah Maleki Azar & Seyed Mohammad Reza Imam | December 2015 |
| 26 | Numerical analysis of stone column bearing capacity in unsaturated soils | Mohammad Hossein Jalalian & Seyed Mohammad Reza Imam | September 2015 |
| 27 | numerical analysis of soil behavior adjacent to the tunnels dug in soil and comparison with the observed results | Tohid Abolghasemi & Seyed Mohammad Reza Imam | September 2015 |

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| 28 | Investigation of core mixed material behavior in Rudbar Lorestan dam under Dynamic loading | Hosein Akbari & Seyed Mohammad Reza Imam | October 2014 |
| 29 | factors affecting distribution of stress along soil nails for composite retaining walls | Talie Asgarnia Faal & Seyed Mohammad Reza Imam | October 2014 |
| 30 | Performance analysis of composite walls, including nail and anchor and investigation of the role of both system | Seyedsaber Hosseini & Seyed Mohammad Reza Imam | October 2014 |
| 31 | Implementation of a critical stste model for sands in the ABAQUS software | Seyedeh Atefe Geramian & Seyed Mohammad Reza Imam | October 2014 |
| 32 | Studying of the behavior of Firoozkooch sand for different stress paths using experimental results. | Farzad Kaviani Hamedani & Seyed Mohammad Reza Imam | May 2014 |
| 33 | Analysis of the behavior of concrete face rockfill dams and comparison with instrumentation measurments | Sara Dadras & Seyed Mohammad Reza Imam | February 2014 |
| 34 | Modeling of the behavior of Firoozkooch sand for different stress paths using a critical state model | Mahmood Ashegh & Seyed Mohammad Reza Imam | February 2014 |
| 35 | Analysis of the behavior of concrete face rockfill dams during earthquakes | Alireza Nazari & Seyed Mohammad Reza Imam | January 2014 |
| 36 | Analysis of stress strain behavior and instability of loose sand slopes due to rising water table | Masoud Khabazian & Seyed Mohammad Reza Imam | September 2013 |
| 37 | Experimental and numerical evaluation of bearing capacity of shallow foundations on unsaturated soils | Khashayar Nikoonejad & Seyed Mohammad Reza Imam | July 2013 |
| 38 | Numerical evaluation of hydrylic fracturing in non-homogenous earth dams: case study of doosti dam | Ali Taheri & Seyed Mohammad Reza Imam | February 2013 |
| 39 | modeling of soil structures using a critical state model for sands taking into account sand anisotropic behavior | Vahid Jamali & Seyed Mohammad Reza Imam | February 2013 |
| 40 | Numerical analysis of the behavior and optimization of combined stabilization systems consisting of soil nail and anchors | S.Danial Ghafariantorbati Mojaver & Seyed Mohammad Reza Imam | September 2012 |
| 41 | Development of an Apparatus and Laboratory Evaluation of Sand Slope Instability Caused by Rising Water Table | Amir Khogasteh Rahimi & Seyed Mohammad Reza Imam | February 2012 |
| 42 | Numerical analysis and laboratory testing of the effect of various factors on the instability of slopes subject to saturation | Hassan Motamedi Nia & Seyed Mohammad Reza Imam | February 2012 |
| 43 | Study of the effect of geometry and material properties of non-homogenous earth dams on arching and distribution of pore pressures in the core | Somayeh Sadeghi & Seyed Mohammad Reza Imam | February 2012 |
| 44 | Numerical investigations on the effect of various factors on the settlement of pile groups in liquefiable soils | Yousef Sallehi & Seyed Mohammad Reza Imam | February 2012 |
| 45 | Application of a critical state constitutive model for liquefaction analysis of saturated sands under cyclic loading | Yousof Javanmardi & Seyed Mohammad Reza Imam | February 2011 |
| 46 | Numerical Modeling of Stone Columns Reinforced by Geosynthetics | Lohrasb Keykhosrowpour & Seyed Mohammad Reza Imam | February 2011 |
| 47 | Analysis of the Behavior of Doosti Dam during Construction and Impounding and Comparison with the Results of Instrumentation | Nariman Mahabadi Mahabad & Seyed Mohammad Reza Imam | February 2011 |
| 48 | Evaluation of Fines Content in Granular Soils using CPT Results and Investigation of Improvement Efficiency in These Soils | Arash Afzali & Seyed Mohammad Reza Imam | July 2010 |

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| 49 | Constitutive modeling of Anisotropic behavior of Sands | Rouzbeh Rasouli & Seyed Mohammad Reza Imam | February 2010 |
| 50 | Design and construction of an experimental model to examine slope instability resulting from rise in water level | Vahid Masoumifard & Seyed Mohammad Reza Imam | February 2010 |
| 51 | Investigation of internal erosion in zoned dam with clay core of low plasticity index | Ahmad Mazaheri & Seyed Mohammad Reza Imam | January 2010 |
| 52 | Experimental study and modeling behavior of granular materials in constant deviatoric stress loading | Arash Azizi & Seyed Mohammad Reza Imam | July 2009 |
| 53 | Application of a critical state constitutive model for sands for the analysis of lateral spreading due to Earthquake | Rashid Zandian & Seyed Mohammad Reza Imam | January 2009 |

Journal Papers

Portal Records

- 1 Davood Akbarimehr, Abolfazl Eslami, Seyed Mohammad Reza Imam, "Correlations between Compression Index and Index Properties of Undisturbed and Disturbed Tehran clay", Geotechnical and Geological Engineering, April 2021 Vol. 1, Num. 1, Page 1-7, April 2021,
- 2 Seyed Mohammad Reza Imam, Mohsen Zarei, Seyed Danial Ghafarian Torbati Mojaver, "Relative Contribution of various deformation mechanisms in the settlement of floating stone column-supported foundations", COMPUTERS AND GEOTECHNICS, March 2021 Vol. 134, Num. 1, Page 1-15, March 2021,
- 3 Davood Akbarimehr, Abolfazl Eslami, Esmail Aflaki, Seyed Mohammad Reza Imam, "Using empirical correlations and artificial neural network to estimate compressibility of low plasticity clays", Arabian Journal of Geosciences, November 2020 Vol. 1, Num. 1, Page 1-11, November 2020,
- 4 Anvar Faresghooshooni, Seyed Mohammad Reza Imam, Amin Mahmoodi, "Model testing on the effects of section geometry and stiffness on the cyclic lateral behavior of piles in loose sand", INTERNATIONAL JOURNAL OF CIVIL ENGINEERING, July 2020 Vol. 1, Num. 1, Page 1-18, July 2020,
- 5 Seyed Danial Ghafarian Torbati Mojaver, Seyed Mohammad Reza Imam, Mohsen Zarei, "Modeling the behavior of sand-fines mixtures using a critical state model", SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, June 2020 Vol. 139, Num. 1, Page 1-15, June 2020,
- 6 Sajjad Vaseghi Maghvan, Seyed Mohammad Reza Imam, John S McCartney, "Relative Density Effects on the Bearing Capacity of Unsaturated Sand", SOILS AND FOUNDATIONS, August 2019 Vol. 0, Num. 0, Page 0-0, August 2019,
- 7 Sajjad Vaseghi Maghvan, Seyed Mohammad Reza Imam, John S McCartney, "Physical Modeling of Stone Columns in Unsaturated Soil Deposits", GEOTECHNICAL TESTING JOURNAL, January 2019 Vol. NA, Num. 0, Page 0-0, January 2019,
- 8 Yousof Javanmardi, Seyed Mohammad Reza Imam, "Application of a critical state model for the cyclic loading of sands", , December 2017 Vol. 49, Num. 4, Page 831-844, December 2017,
- 9 Alireza Moazzami, Seyed Mohammad Reza Imam, "Laboratory Study of Gypsum and Anhydrite Dissolution in the Case of Surface Flow", International Journal of Scientific Study, August 2017 Vol. 5, Num. 5, Page 1-8, August 2017,
- 10 Yousof Javanmardi, Seyed Mohammad Reza Imam, Manuel Pastor, Diego Manzanal, "A reference state curve to define the state of soils over a wide range of pressures and densities", GEOTECHNIQUE, April 2017 Vol. -, Num. 0, Page 0-0, April 2017,
- 11 Alireza Moazzami, Seyed Mohammad Reza Imam, "Evaluation of solubility of gypsum-bearing piles and the role of water in its leakage off the pile in fifty-year return period: special case of Marash Dam", European Online Journal of Natural and Social Sciences, April 2016 Vol. 5, Num. 2, Page 386-398, April 2016,
- 12 Vahid Masoumifard, Seyed Mohammad Reza Imam, Rouzbeh Rasouli, "Experimental Evaluation of the instability of sandy slopes due to rise in water table", , March 2014 Vol. 45, Num. 2, Page 65-72, March 2014,

- 13 Jalal Bazargan, Seyed Mohammad Reza Imam, Alireza Moazzami, "Evaluation of gypsum solubility potential in hydroelectrical and storage dams and its improvement methods", , February 2014 Vol. 14, Num. 33, Page 6-12, February 2014,
- 14 Rouzbeh Rasouli, Seyed Mohammad Reza Imam, Vahid Masoumifard, "Modification of a Critical-state Constitutive Model for the Prediction of Inherent Anisotropy in Sands", , December 2012 Vol. 44, Num. 2, Page 65-74, December 2012,
- 15 Nariman Mahabadi Mahabad, Seyed Mohammad Reza Imam, Yousof Javanmardi, Dr Hossein Jalali, "Three dimensional Analysis of a concrete face Rockfill dam", PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS- GEOTECHNICAL ENGINEERING, December 2011 Vol. 165, Num. 0, Page 1-21, December 2011,
- 16 Lohrasb Keykhosrowpour, Abbas Soroush, Seyed Mohammad Reza Imam, "3D numerical analyses of geosynthetic encased stone columns", GEOTEXTILES AND GEOMEMBRANES, December 2011 Vol. 35, Num. 35, Page 61-68, December 2011,
- 17 Ahmad Mazaheri, Seyed Mohammad Reza Imam, Dr Ali Noorzad, "Numerical modeling of Doosti dam and comparison of results with readings of dam instrumentation", , September 2011 Vol. سال سیزدهم, Num. 28, Page 19-26, September 2011,
- 18 J Grozic, Seyed Mohammad Reza Imam, P. K. Robertson, N. Morgenstern, "Constitutive modeling of gassy sand behavior", CANADIAN GEOTECHNICAL JOURNAL, June 2005 Vol. 42, Num. 42, Page 812-829, June 2005,
- 19 Seyed Mohammad Reza Imam, N. Morgenstern, P. K. Robertson, D. Chan, "A critical State Constitutive Model for Liquefiable Sand", CANADIAN GEOTECHNICAL JOURNAL, June 2005 Vol. 42, Num. 3, Page 830-855, June 2005,
- 20 Seyed Mohammad Reza Imam, D. Chan, P. K. Robertson, N. Morgenstern, "Effect of Anisotropic yielding on the flow liquefaction of loose sand", SOILS AND FOUNDATIONS, June 2002 Vol. 42, Num. 3, Page 33-44, June 2002,
- 21 Seyed Mohammad Reza Imam, N. Morgenstern, P. K. Robertson, D. Chan, "Yielding and flow liquefaction of loose sand", SOILS AND FOUNDATIONS, June 2002 Vol. 42, Num. 3, Page 19-31, June 2002,

Conference Papers

Portal Records


- 1 Seyed Mohammad Reza Imam, Reza Mohammadi, Seyed Danial Ghafarian Torbati Mojaver, "Analysis of Soil Subsidence due to change in groundwater level in Unsaturated Soils ", 7th Asia-Pacific Conference on Unsaturated Soils (AP-UNSAT2019), August 2019
- 2 Seyed Mohammad Reza Imam, Mohammad Ghasemi, Hosein Akbari, "Results of large-scale cyclic triaxial tests on the mixed material of Rudbar dam core ", 71st Canadian Geotechnical Conference (GeoEdmonton 2018), September 2018
- 3 Seyed Mohammad Reza Imam, Amin Mahmoodi, Anvar Faresghoshooni, "Experimental Study of gypsum and anhydrite dissolution due to surface flow ", 71st Canadian Geotechnical Conference (GeoEdmonton 2018), September 2018
- 4 Seyed Mohammad Reza Imam, Sajjad Vaseghi Maghvan, John Mccartney, "Shear Strength of Unsaturated Sand at Different Relative Densities ", The 7th International Conference on Unsaturated Soils (UNSAT2018), August 2018
- 5 Seyed Mohammad Reza Imam, Amir Reza Fotovvat, "Numerical modelling of stone columns in unsaturated silty sand ", The 7th International Conference on Unsaturated Soils (UNSAT2018), August 2018
- 6 Sajjad Vaseghi Maghvan, Alireza Moazzami, Seyed Mohammad Reza Imam, "Laboratory model testing of stone columns in unsaturated silty sand ", GeoOttawa2017, October 2017
- 7 Seyed Mohammad Reza Imam, Sajjad Vaseghi Maghvan, Maryam Saaly, "Effect of hydraulic balance time on the shear strength of an unsaturated granular soil at various densities ", GeoOttawa2017, October 2017
- 8 Hosein Akbari, Seyed Mohammad Reza Imam, "Analysis of the tests results for Large-scale triaxial cyclic on core mixed sample material of Roudbar Lorestan Dam ", 85th Annual Meeting of International Commission on Large Dams, July 2017





- 9 Seyed Mohammad Reza Imam, Seyed Danial Ghafarian Torbati Mojaver, "Effects of Soil Stiffness and depth on the seismic response of sites in total and effective stress analyses ", The 3rd International Conference on Performance Based Design in Earthquake Geotechnical Engineering - PBDIII Vancouver 2017, July 2017
- 10 Seyed Mohammad Reza Imam, Sajjad Vaseghi Maghvan, Maryam Saaly, "Parameters Affecting soil-water characteristic curves of unsaturated soils ", 5th International Conference on Geotechnical Engineering and Soil Mechanics, November 2016
- 11 Hadis Jebalbarezhi Hookerdi, Seyed Mohammad Reza Imam, "Modeling the behavior of cemented sand using a critical state model ", 5th International Conference on Geotechnical Engineering and Soil Mechanics, November 2016
- 12 Maryam Marzban, Seyed Mohammad Reza Imam, "Numerical Analysis of the bearing capacity of shallow footings on unsaturated soils ", 5th International Conference on Geotechnical Engineering and Soil Mechanics, November 2016
- 13 Ali Reza Nouri, Seyed Mohammad Reza Imam, "Numerical Analysis of the Behavior of Siah Bishe Concrete Face Rockfill Dam ", 5th International Conference on Geotechnical Engineering and Soil Mechanics, November 2016
- 14 Hosein Akbari, Seyed Mohammad Reza Imam, "Evaluation of results of large scale cyclic triaxial tests on the core material of Rudbar Lorestan Dam ", 5th International Conference on Geotechnical Engineering and Soil Mechanics, November 2016
- 15 Massoud Palassi, Seyed Mohammad Reza Imam, Majid Mohaqqueqi, "Effect of freezing and chemical grouting on the shear behaviour of rock joints ", GeoVancouver 2016, October 2016
- 16 Pardis Alavi Sabzevari, Seyed Mohammad Reza Imam, "Modeling the variation of the initial tangent modulus and internal friction angle with confining pressure in rockfill material ", 9th National Congress on Civil Engineering, May 2016
- 17 Pardis Alavi Sabzevari, Seyed Mohammad Reza Imam, "Effect of maximum diameter and uniformity coefficient on the variation of deformation and strength parameters with confining pressure in rockfill material ", 9th National Congress on Civil Engineering, May 2016
- 18 Mohammad Hosein Jalalian, Seyed Mohammad Reza Imam, "Numerical analysis of bearing capacity of stone columns in unsaturated soils ", 9th National Congress on Civil Engineering, May 2016
- 19 Sajjad Vaseghi Maghvan, Seyed Mohammad Reza Imam, Mohammad Ali Takallou, Mohammad Mahdi Soroori, "Experimental study of load-settlement behavior of stone columns in unsaturated soils ", 9th National Congress on Civil Engineering, May 2016
- 20 Seyed Mohammad Reza Imam, Seyedsaber Hosseini, "Design and Optimization Procedure for Composite soil nail-anchor walls ", The 15th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, November 2015
- 21 Sajjad Vaseghi Maghvan, Ashkan Shafi, Seyed Mohammad Reza Imam, Ehsan Michaeli, "Numerical analysis of the behavior of stone columns in unsaturated soils ", Second National Conference on Soil Mechanics and Foundation Engineering, October 2015
- 22 Sajjad Vaseghi Maghvan, Seyed Mohammad Reza Imam, "Evaluation of the effects of various parameters on the behavior of stone columns installed in clays ", Second National conference on Soil Mechanics and Foundation Engineering, October 2015
- 23 Vahid Jamali, Seyed Mohammad Reza Imam, "Modeling geotechnical structures considering effects of anisotropy using a critical state model ", Tenth International Congress on Civil Engineering, May 2015
- 24 Yousof Javanmardi, Seyed Mohammad Reza Imam, "Evaluation of the performance of a critical state constitutive model for sand using a nonlinear FEM program ", Tenth International Congress on Civil Engineering, May 2015
- 25 Parviz Abdi, Hamidreza Saba, Seyed Mohammad Reza Imam, "Examination of soil nail and soil interaction in excavations using numerical modeling (case study) ", first National conference on Civil engineering and sustainable development, January 2015
- 26 Alireza Nazari, Seyed Mohammad Reza Imam, "Comparison of results of 2D and 3D analyses of concrete face rockfill dam ", 2nd Iranian Conference on Geotechnical Engineering, October 2014

- 27 Mohammad Khalili, Amir Reza Rezaei Naeini, Seyed Mohammad Reza Imam, "Study of deformations due to excavations stabilized by the soil nailing system and its effects on adjacent structures ", 8th National Congress on Civil Engineering, May 2014
- 28 Alireza Nazari, Seyed Mohammad Reza Imam, "Comparison of 2D and 3D static analysis of concrete face rockfill dams ", 8th National Congress on Civil Engineering, May 2014
- 29 Seyedeh Atefe Geramian, Seyed Mohammad Reza Imam, "Modeling the behavior of Firoozkooh sand subjected to constant deviatoric stress loading ", 8th National Congress on Civil Engineering, May 2014
- 30 Mahmood Ashegh, Seyed Mohammad Reza Imam, Farzad Kaviani Hamedani, Kazem Fakharian, "Modeling the undrained compression and extension behavior of Firoozkooh sand using a critical state model ", 8th National Congress on Civil Engineering, May 2014
- 31 Seyed Saber Hosseini, Mohammad Khalili, Seyed Mohammad Reza Imam, "Examination of the effect of soil nail installation pattern on wall deformation in deep excavations ", 8th National Congress on Civil Engineering, May 2014
- 32 Hosein Akbari, Hassan Yazerloo, Seyed Mohammad Reza Imam, "Examination of the effect of Forepoling method in reducing the surface settlement using the instrumentation data of Tunnel No 2 of Karaj metro ", 10th Iranian Tunnelling Conference, November 2013
- 33 Mahmood Ashegh, Seyed Mohammad Reza Imam, Farzad Kaviani Hamedani, Kazem Fakharian, "Modeling of compressive behaviour of Firoozkooh sand under isotropic and anisotropic consolidation using a critical state model ", International Conference on Civil Engineering Architecture & Urban Sustainable Development, November 2013
- 34 Alireza Nazari, Seyed Mohammad Reza Imam, "Static and Dynamic analysis of a CFRD case study of the Gelvard-Neka dam in Mazandaran ", International Conference on Civil Engineering Architecture & Urban Sustainable Development, November 2013
- 35 Mohammad Khalili, Mohammad Reza Molaie, Seyed Mohammad Reza Imam, "Examination of flexural effects in the numerical modeling of soil nails ", International Conference on Civil Engineering Architecture & Urban Sustainable Development, November 2013
- 36 Seyed Mohammad Reza Imam, Mohammad Khalili, Seyed Saber Hosseini, "Examination of the Various meshing methods in modeling soil nailing systems using the Abaqus software ", International Conference on Civil Engineering Architecture & Urban Sustainable Development, November 2013
- 37 Masoud Khabazian, Seyed Mohammad Reza Imam, "Comparison of two behavioral model in stress-strain analysis of sandy slope due to rising water ", The 1st Iranian Conferences on Geotechnical Engineering, October 2013
- 38 Khashayar Nikoonejad, Seyed Mohammad Reza Imam, "Numerical modeling of stress-strain behavior of shallow foundations on unsaturated sandy soils ", The 1st Iranian Conferences on Geotechnical Engineering, October 2013
- 39 Ali Taheri, Seyed Mohammad Reza Imam, "coupled analysis of a soil-rockfill dam during construction and impounding and determination of hydraulic fracture potential in its core ", The 1st Iranian Conferences on Geotechnical Engineering, October 2013
- 40 Masoud Khabazian, Seyed Mohammad Reza Imam, "Analysis of stress - strain and instability of loose sandy slope caused by rising sea levels ", The 1st Iranian Conferences on Geotechnical Engineering, October 2013
- 41 Mohammad Mohsen Olapour, Seyed Mohammad Reza Imam, "Empirical Correlation between shear wave velocity and SPT test in Soils of Ahvaz City ", Seventh National Congress on Civil Engineering, May 2013
- 42 Yousof Javanmardi, Vahid Jamali, Seyed Mohammad Reza Imam, "A critical state model for the behavior of saturated loose sand under cyclic loading and its comparison with other elasto-plastic models ", Seventh National Congress on Civil Engineering, May 2013
- 43 Vahid Jamali, Yousof Javanmardi, Seyed Mohammad Reza Imam, "Modeling the anisotropic behavior of sands using a critical state constitutive model ", Seventh National Congress on Civil Engineering, May 2013
- 44 Khashayar Nikoonejad, Seyed Mohammad Reza Imam, "Bearing Capacity and Settlement of shallow foundations on unsaturated soil ", Seventh National Congress on Civil Engineering, May 2013
- 45 Seyed Mohammad Reza Imam, Somayeh Sadeghi, Yousof Javanmardi, "Factors Affecting Arching in the Core of Earth Dams ", GeoManitoba2012, September 2012

- 46 Yousef Sallehi, Seyed Mohammad Reza Imam, "Numerical Evaluation of of factors affecting pile group settlement in liquefiable soils ", Ninth International Congress on Civil Engineering, May 2012
- 47 Somayah Sadeghi, Seyed Mohammad Reza Imam, "Factors affecting arching in Earth dams ", The first International Conference on Dams and Hydropower, February 2012
- 48 Seyed Mohammad Reza Imam, Nariman Mahabadi Mahabad, "Observed and calculated arching in the clayey silt core of an earth dam ", 2011Pan-Am CGS Geotechnical Conference, October 2011
- 49 Lohrasb Keykhosrowpour, Abbas Soroush, Seyed Mohammad Reza Imam, "A study on the behavior of a geosynthetic encased stone column group using 3D numerical analysis ", 2011Pan-Am CGS Geotechnical Conference, October 2011
- 50 Seyed Mohammad Reza Imam, Ahmad Mazaheri, Ali Noorzad, "Examination of cracking potential in the low-plasticity core of an earth dam ", 2011Pan-Am CGS Geotechnical Conference, October 2011
- 51 Lohrasb Keykhosrowpour, Abbas Soroush, Seyed Mohammad Reza Imam, "Study of the Effect of encased stone columns on the strength of soft soils using numerical analysis ", Sixth National Congress on Civil Engineering, April 2011
- 52 Seyed Mohammad Reza Imam, Rouzbeh Rasouli, "Introduction of Inherent Anisotropy into a critical state model for sands ", 63rd Canadian Geotechnical Conference, September 2010
- 53 Seyed Mohammad Reza Imam, Vahid Masoumifard, "Experiments on the failure of slopes made of loose sand due to the rise in water level ", 63rd Canadian Geotechnical conference, September 2010
- 54 Rashid Zandian, Seyed Mohammad Reza Imam, Arash Azizi, "Modeling sand behavior using a critical state model implemented in FLAC ", , September 2009
- 55 Seyed Mohammad Reza Imam, Arash Azizi, Rashid Zandian, "Factors affecting sand behavior in constant deviatoric stress loading ", 62nd Canadian Geotechnical Conference and 10th Joint CGS IAH CNC Groundwater Conference, September 2009
- 56 Seyed Mohammad Reza Imam, Arash Azizi, Rashid Zandian, "Factors affecting sand behavior in constant deviatoric stress loading ", 62nd Canadian Geotech Conference, September 2009
- 57 Arash Azizi, Seyed Mohammad Reza Imam, Abbas Soroush, Rashid Zandian, "Behavior of Sand in Constant Deviatoric Stress Loading ", Prediction and Simulation Methods for Geohazard Mitigation, May 2009
- 58 Seyed Mohammad Reza Imam, "Behavior of sands in constant deviatoric stress loading ", , May 2009
- 59 Seyed Mohammad Reza Imam, "Application of a critical state model for the cyclic loading of sands ", , September 2008
- 60 Seyed Mohammad Reza Imam, "Constitutive modeling of loose collapsible soils ", , January 2007
- 61 Seyed Mohammad Reza Imam, "Effect of loading direction on the constitutive behavior of sands ", , January 2007
- 62 Seyed Mohammad Reza Imam, Norbert Morgenstern, "Modeling sand behavior in constant deviatoric stress loading ", Fourth international conference on soft soil engineering 2006, September 2006
- 63 Seyed Mohammad Reza Imam, "Liquefaction flowslides in loose granular soils ", , July 1996

Taught Courses

| # | Course title | Description | Headlines | Date |
|---|------------------------------------|---|---|-----------|
| 1 | Numerical Methods in Geotechniques | Introduction of the application of numerical Methods to graduate students |  | Fall 2021 |

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| 2 | Soil Dynamics | To familiarize students with the behavior of soils and the design of soil structures subjected to dynamic loads |  | Spring 2021 |
| 3 | Soil Mechanics. | To Familiarize students with the fundamentals of soil mechanics and its application in civil engineering |  | Spring 2021 |
| 4 | Soil Mechanics. | To Familiarize students with the fundamentals of soil mechanics and its application in civil engineering |  | Fall 2020 |
| 5 | Numerical Methods in Geotechniques | Introduction of the application of numerical Methods to graduate students |  | Fall 2020 |

Inventions/Patents

| # | Invention title | Reg. number | Country | contributors | Reg. date | Exp. date |
|---|--|-------------|---------|--------------|-----------|-----------|
| 1 | Apparatus for the determination of bearing capacity of footings on unsaturated soils | 82399 | | | 2014/03/1 | 2033/12/1 |
| 2 | Apparatus for testing of slope instability due to rise in water level | 78496 | | | 2012/07/1 | 2032/07/1 |