

## ABOLFAZL ESLAMI

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Tehran Polytechnic, Iran

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### CONTACT INFORMATION

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### EDUCATION

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**Ph.D.**, (1992-1997), Geotechnical Engineering, University of Ottawa, Ottawa, Canada

**MSc**, (1986-1988), Geotechnical Engineering, Tehran Polytechnic (AUT), Tehran, Iran

**BSc**, (1979-1985), Civil Engineering, Sharif University of Technology (SUT), Tehran, Iran

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### EMPLOYMENT

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**Professor**, Amirkabir University of Technology (AUT), 2008-present

**Website:** <http://civil.aut.ac.ir/Default,en-US,Civil,Content,SubSiteItem,ID,96.aspx>

**Academic Member (Lecturer)**, Civil Engineering Department, University of Guilan, 1988-1992

**Assistant & Associate Professor**, Civil Engineering Department, University of Guilan, 1997-2008

**Principal Engineer**, Sham-e Consulting Engineering Co. Tehran, Iran, 2000-present

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## HONORS & AWARDS

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- Citation Based on Google Scholar: Over 2352 cases and with H-Index 24
- Supervising the thesis selected as the superior Ph.D. graduate project of the year 2021
- Selected author for verbal presentation in DFI 46<sup>th</sup>
- Selected professor in AUT for authoring the top international book of the year 2020
- Invited Paper for Special Issue in Probabilistic Engineering Mechanics Journal by Prof. Phoon and Dr. Tang: Heidarie Golafzani, S. and Eslami, A. (2023), CPT and Pile database design approach; a site-specific method upon reliability and statistical assessment criteria.
- Invited Paper for Fellenius Issue: Eslami, A., Moshfeghi, S., Heidari, S., Valikhah, F. (2019). AUT: Geo-CPT&Pile Database Updates and Implementations for Pile Geotechnical Design. Geotechnical Engineering Journal of the SEAGS & AGSSEA, Volume 50 Issues 2 2019-5.
- Compiled and uploaded AUT-Geo: CPT & Pile Database, 2016.
- Selected as the superior researcher of Civil Engineering Dept., in AUT, 2015.
- Selected as the top national engineer by Iranian Society of Structural and Construction Engineering, 2015.
- Selected as the Geotechnical Engineer of the year by Tehran Construction Engineering Organization (TCEO), 2015.
- Received Dadman award for Lifetime Achievement in Civil Engineering by National Foundation of Lasting Fame, 2015.
- Development and Implementation of Frustum Confining Vessel (FCV) for Penetration and Pile Testing, FCV-AUT, 2014.
- Four Inventions Licensed by Iranian Researches and Scientific Organization, 2013-2014.
- Hot Paper, in Elsevier 2009 Journal of Computers and Geotechnics By: Ardalan, H. Eslami, A. Nariman-Zadeh, N. " Piles shaft capacity from CPT and CPTu data by polynomial neural networks and genetic algorithms".
- Selected as the superior researcher of Guilan University academic members, Fall 2005.
- Software Development, UniCone, a program for Processing and Reporting of Cone Penetration Tests (CPT and CPTu), Soil Profiling and pile Capacity Analysis. Unisoft Ltd., 1905 Alexander Street, Calgary, Alberta, T2G 4J3.
- First rank on paper presentation events, held among Eastern Canadian Universities, CGS, (Canadian Geotechnical Society), 1996.
- Reference to Eslami and Fellenius Method, 1995-1997, for Pile Design using CPT and CPTu data in at least two Text Books Published and Used in the USA as follows:  
"Soil Mechanics and Foundations, Budhu, M. 2002-2008 "  
"Foundation Design, Principles & Practices, Coduto, D. P. 2001-2014".

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## **MEMBERSHIPS**

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- Member of DFI (Deep Foundation Institute), USA
- Member of ASCE (American Society of Civil Engineering), GI (Geo Institute), USA
- Member of IGS (Iranian Geotechnical Society)
- Member of International Federation of Consulting Engineers (FIDIC)

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## **RESEARCH INTERESTS**

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- Special Foundations
- Deep Foundations
- Soil Modification and Improvement
- In-Situ Testing (CPT and CPTu) in Geotechnical Practice
- Bridge Engineering
- Physical Modeling via Frustum Confining Vessel (FCV)
- Database Development and Implementation (focused on CPT and Pile)

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## **TAUGHT COURSES AND LECTURES**

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- Soil Mechanics
- Foundation Engineering
- Advanced Foundation Engineering
- Earth Dams
- Marine Geotechnical Engineering
- Ground Modification and Soil Improvement
- Bridge Engineering
- Geotechnical Design
- Pile Engineering in Marine Structures
- In-situ Testing Applications in Geotechnical Engineering

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## **SUPERVISED GRADUATE STUDENTS**

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- Over 150 Master of Science (MSc)
- Over 25 Doctor of Philosophy (Ph.D.)

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## INVENTION/PATENT

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	<i>Invention/Patent Title</i>	<i>Reg. number</i>	<i>Country</i>	<i>Contributors</i>	<i>Reg. date</i>	<i>Exp. date</i>
1	Sloped porous grid seawalls	82195	I.R. Iran	Eslami, A., Mohammadi, M., & Shirinzaban, M.	2014/02/1	2034/01/1
2	Frustum Confining Vessel, (FCV-AUT)	82201	I.R. Iran	Zare, M. & Eslami, A.	2014/02/1	2034/01/1
3	Cycle and non-cycle simulation machine of the marine conditions (atmosphere and splashing zones) for concrete and other samples	82143	I.R. Iran	Mohammadi, M., Mohammadi, H., Ebadi, T., & Eslami, A.	2014/02/1	2033/12/1
4	Attached single foundations	82202	I.R. Iran	Eslami, A.	2014/02/1	2034/01/1
5	Tire-aggregate piers, (TAP)	82144	I.R. Iran	Eslami, A., Mohammadi, M., & Fahimifar, A.	2014/02/1	2034/01/1
6	Inclined retaining wall	82203	I.R. Iran	Eslami, A., Mohammadi, H., & Ahmadi, H.	2014/02/1	2033/12/1

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## KEYNOTE LECTURES AND SPECIAL PRESENTATIONS

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1	“Databased Approach for Cone Penetration Test (CPT & CPTu) Applications in Foundation Engineering”, January 2023, held by Samueli School of Engineering (University of California, Irvine).
2	“Piezocone and Cone Penetration Tests (CPTu & CPT) Applications in Geotechnical & Foundation Engineering”, November 2022, held by State Key Laboratory for Geomechanics & Deep Underground Engineering (China University of Mining and Technology).
3	“Foundations Systems of Tall Buildings: Stories Behind the Storeys”, June 2022, held by Mazandaran Engineering Organization, Babolsar, Iran.
4	“Why In-situ Testing in Geotechnical Engineering?”, January 2022, held by Iranian Geotechnical Society, In-situ Testing Committee, Iran University of Science and Technology (IUST), Tehran, Iran.
5	“Development and Application of Databases in Deep Foundation Engineering” New trends on Design and Construction of Deep Foundations (Piles), October 2019, held by Iranian Geotechnical Society.
6	“Ground Improvement Systems: Geotechnical and Structural Aspects” 3rd Iran International Conference on structural engineering, March 2017, held by Iranian Society of Structural Engineers.

7	“Optimum Trends in Foundation Engineering; Effects of Construction on Adjacent Structures”, 3rd national Congress of civil engineers, August 2017, held by Mazandaran Engineering Organization.
8	“Physical Modelling via Frustum Confining Vessel, FCV-AUT” University of Victoria, ON, Canada, December 2017, Sabbatical leave.
9	“AUT; Geo-CPT&Pile Database” Montreal Polytechnic, QC, Canada, December 2017, Sabbatical leave.
10	“CPT and CPTu Applications for Piles (Direct and Indirect Approaches)” McGill University, QC, Canada, December 2017, Sabbatical leave.
11	“Hybrid Foundations” 2nd national conference on Iranian structural engineering, March 2016, held by Iranian Society of Structural Engineers.
12	“Semi-deep Foundations” Special foundations seminar, March 2016, held by Iranian Geotechnical Society.
13	“New Trends in Foundation Engineering” 2014, 1st National Conference on Soil Mechanics and Foundation Engineering, Shahid Rajaei University, Tehran, Iran.
14	“Evaluation of Determinant Parameters for Thickening the Engineered Fills Layers, 2014, Proceedings of the new trends in transport phenomena, University of Ottawa, ON, Canada.
15	“Study on Box and PRF Semi-Deep Foundations Behavior in Bridge Engineering”, 2015, 4 <sup>th</sup> International Conference on Bridges, Amirkabir University of Technology, Tehran, Iran.

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## PUBLICATIONS

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### A. Books

- 1- Eslami, A. Moshfeghi, S Molaabasi, H. Eslami, M., 2019. Piezocone and Cone Penetration Test (CPTu and CPT) Applications in Foundation Engineering, ELSEVIER.
- 2- Eslami, A. et al., 2016. Drilled Shafts: Construction Procedures and LRFD Design Methods, (Translated in Farsi), Naghoos Press.
- 3- Eslami, A. and Sekhavatian, A., 2013. Geotechnical Engineering: Design Application and Hazards. Amirkabir University Press, (In Farsi).
- 4- Eslami, A. and Sekhavatian, A., 2013. Geotechnical Engineering: Principles, Investigations and Interpretations. Amirkabir University Press, (In Farsi).
- 5- Eslami, A. Ranjbar, M. Riazi, T. and Veiskarami, M., 2006. Mat Foundation: Analysis, Design & Performance. Guilan University Press, (In Farsi).

- 6- Fakharian, K. Eslami, A., 2006. Axial Bearing Capacity of Piles. Ministry of Roads and Transportation deputy of education research and technology transportation research institute (In Farsi).
- 7- Eslami, A., 2005. Foundation Engineering: Design & Construction. Building and Housing Research Center, BHRC. No. B-437,4th Edition (In Farsi).

## B. International Journal Papers

No.	Title	Journal	Authors	Year
109	Assessment of Construction and Demolition Waste Depot Materials for Filling	TRANSPORTATION INFRASTRUCTURE GEOTECHNOLOGY	Nasiri, A., Eslami, A. & Fahimifar, A.	2023
108	Numerical Investigation of Rigidity and Flexibility Parameters Effect on Superstructure Foundation Behavior Using Three-Dimensional Finite Element Method	CASE STUDIES IN CONSTRUCTION MATERIALS	Mousavian Hejazi, S.A., Feyzpour, A., Khaje khabaz, M., Eslami, A., Fouladgar, M., Eftekhari, S.A., & Toghraie, D.	2023
107	Developed Triangular Charts; Deltaic CPTu-Based Soil Behavior Classification Using AUT: CPTu-Geo-Marine Database	PROBABILISTIC ENGINEERING MECHANICS	Eslami, A., Heidarie Golaftani, S., & Naghibi, M.H.	2022
106	Mixed Boundary-Value Problems and Dynamic Impedance Functions Due to Vibrations of Rigid Disc on a Thermoelastic Transversely Isotropic Half-Space	ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS	Hayati, Y., Eslami, A. & Rahai, A.	2022
105	Dynamic Interaction, Impedance Functions and Elastic Wave Propagation Due to Horizontal and Vertical Vibrations of a Rigid Foundation in a Transversely Isotropic Elastic Ground	MECHANICS OF ADVANCED MATERIALS AND STRUCTURES	Hayati, Y., Havaei, Gh. & Eslami, A.	2022
104	Improving the Geotechnical Properties of Recycled Non-Selected Construction Waste Using Geogrid Reinforcement	INTERNATIONAL JOURNAL OF CIVIL ENGINEERING	Eslami, A., Nasiri, A. & Fahimifar, A.	2022
103	Equivalent dynamic stiffnesses and 3D wave propagations of a transversely isotropic elastic ground in rocking and torsional interactions with a harmonically loaded rigid foundation	MECHANICS of ADVANCED MATERIALS and STRUCTURES	Hayati, Y., Eslami, A. & Rahai, A.	2022
102	Design and fabrication of frustum confining vessel apparatus for model pile testing in saturated soils	INNOVATIVE INFRASTRUCTURE SOLUTIONS	Jassim, A., Ganjian, N. & Eslami, A.	2022
101	Field investigation on the performance of different screw piles in sandy soils Case study: Bandar Anzali Coast - Anzali Port	INTERNATIONAL JOURNAL of STRUCTURE and ENGINEERING	Shojaei, E., Eslami, A., Ganjian, N. & Ezzatdust, R.	2022
100	Load-displacement behavior of semi-deep shell foundations on sand by experimental study	INTERNATIONAL JOURNAL OF CIVIL ENGINEERING	Tadayon, A., Eslami, A., & Fakharian, K.	2022
99	Optimized selection of axial pile bearing capacity predictive methods based on multi criteria decision making (MCDM) models and database approach	SOFT COMPUTING JOURNAL	Heidarie Golaftani, S., Eslami, A., Jamshidi Chenari, R., & Hamed Saghayan, M.	2022
98	Effect of Cone Diameter on Determination of Penetration Resistance Using a FCV	INTERNATIONAL JOURNAL OF CIVIL ENGINEERING	Esmailzade, M., Eslami, A. & Nabizadeh, A.	2022
97	Geotechnical and geophysical characterisations of construction waste-infilled quarry for housing and commercial developments: Case study of Tehran, Iran	WASTE MANAGEMENT & RESEARCH	Eslami, A., Nabizadeh, A. & Akbarzadeh Kasani, H.	2021

96	Failure analysis of clay soil-rubber waste mixture as a sustainable construction material	CONSTRUCTION AND BUILDING MATERIALS	Eslami, A. & Akbarimehr, D.	2021
95	Asymmetric 3D stress-and flux-induced wave propagation in transversely isotropic thermoelastic solids by using of analytical methods	WAVES IN RANDOM AND COMPLEX MEDIA	Hayati, Y., Havaei, Gh. & Eslami, A.	2021
94	3D asymmetric dynamic Green's functions of a thermoelastic transversely isotropic solid by a method of potentials	JOURNAL of THERMAL STRESSES	Hayati, Y., Havaei, Gh. & Eslami, A.	2021
93	Wet and dry installation effects on the capacity of helical piles in loess deposits	INTERNATIONAL JOURNAL OF GEOTECHNICAL ENGINEERING	Arabameri, M. & Eslami, A.	2021
92	Investigating the Effect of Waste Rubber in Granular Form on Strength Behavior of Tehran Clay	ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING	Akbarimehr, D., Eslami, A., Aflaki, E. & Hajitaheriha, M.M.	2021
91	Study on Ultimate Capacity of Drilled Displacement Piles: Static Analysis and CPT-based Methods	SOIL MECHANICS and FOUNDATION ENGINEERING	Hejazi Rad, S., Ghareh, S., Eslami, A. & Ganjian, N.	2021
90	Experimental and Field Studies on the Behavior of Drilled Displacement Piles	INNOVATIVE INFRASTRUCTURE SOLUTIONS	Hejazi Rad, S., Ghareh, S., Eslami, A. & Ganjian, N.	2021
89	The experimental investigation of the behavior of executed piles model with applied torque in Frustum Confining Vessel (FCV-AUT)	SOIL MECHANICS and FOUNDATION ENGINEERING	Hejazi Rad, S., Ghareh, S., Eslami, A. & Ganjian, N.	2021
88	Experimental and comparative investigations of a new self-expanded steel pile behaviour via physical modelling (FCV-AUT)	SOIL MECHANICS and FOUNDATION ENGINEERING	Shojaei, E., Eslami, A. & Ganjian, N.	2021
87	Correlations between Compression Index and Index Properties of Undisturbed and Disturbed Tehran clay	GEOTECHNICAL AND GEOLOGICAL ENGINEERING	Akbarimehr, D., Eslami, A. & Imam, R.	2021
86	3D soil-structure interaction analysis with a combined substructure-FEM under external forces and seismic waves	MECHANICS OF ADVANCED MATERIALS AND STRUCTURES	Hayati, Y., Havaei, Gh., Eslami, A. & Matteo Filippi	2021
85	Influence of Soil Stiffness on the Response of Piled Raft Foundations under Earthquake Loading	TRANSPORTATION INFRASTRUCTURE GEOTECHNOLOGY	Akbari, A., Eslami, A. & Nikookar, M.	2021
84	Microstructure and Strength Effect on Bearing Capacity of Helical Piles Installed in Golestan Loess	INTERNATIONAL JOURNAL OF CIVIL ENGINEERING	Arabameri, M. & Eslami, A.	2021
83	Using empirical correlations and artificial neural network to estimate compressibility of low plasticity clays	ARABIAN JOURNAL OF GEOSCIENCES	Akbarimehr, D., Eslami, A., Aflaki, E. & Imam, R.	2020
82	Relevant databased approach upon reliable safety factor for pile axial capacity	MGG, MARINE GEORESOURCES & GEOTECHNOLOGY	Eslami, A. & Heidarie Golafzani, S.	2020
81	Geotechnical behaviour of clay soil mixed with rubber waste	JOURNAL OF CLEANER PRODUCTION	Akbarimehr, D., Eslami, A. & Aflaki, E.	2020
80	Probabilistic assessment of model uncertainty for prediction of pile foundation bearing capacity; static analysis, SPT and CPT-based methods	GEOTECHNICAL AND GEOLOGICAL ENGINEERING	Heidarie Golafzani, S., Eslami, A. & Jamshidi Chenari, R.	2020
79	Pile shaft capacity from cone penetration test records considering scale effects	INTERNATIONAL JOURNAL OF GEOMECHANICS	Eslami, A., Lotfi, L., Infante, J.A., Moshfeghi, S. & Eslami, M.	2020
78	Design adaptations in a large and deep urban excavation: case study	JOURNAL OF ROCK MECHANICS AND GEOTECHNICAL ENGINEERING	Alipour, A. & Eslami, A.	2019
77	Elasto-plastic characteristics of clayey soils contaminated by gasoil using cyclic triaxial apparatus	ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING	Mir Mohammad Hosseini, F., Ebadi, T., Eslami, A.,	2019

			Mir Mohammad Hosseini, S.M., & Jahangard, H. R.	
76	Geotechnical site characterization of the Urmia Lake super-soft sediments using laboratory and CPTu records	MGG, MARINE GEORESOURCES & GEOTECHNOLOGY	Eslami, A. , Akbarimehr, D., Aflaki, E. & Hajitaheriha, M. M.	2019
75	Self-expanded piles: a new approach to unconventional piles development	MGG, MARINE GEORESOURCES & GEOTECHNOLOGY	Shojaei, E., Eslami, A. & Ganjian, N.	2019
74	Load–displacement behavior of driven piles in sand using CPT-based stress and strain fields	INTERNATIONAL JOURNAL OF CIVIL ENGINEERING	Valikhah, F., Eslami, A. & Veiskarami, M.	2019
73	CPT-Based nonlinear stress-strain approach for evaluating foundation settlement: analytical and numerical analysis	ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING	Valikhah, F. & Eslami, A.	2019
72	Skirted semi-deep foundations behaviour on deposits with variable undrained shear strength	SHIPS AND OFFSHORE STRUCTURES	Rezazadeh, S. & Eslami, A.	2019
71	Reliability based assessment of axial pile bearing capacity: static analysis, SPT and CPT-based methods	GEORISK: ASSESSMENT AND MANAGEMENT OF RISK FOR ENGINEERED SYSTEM AND GEOHAZARDS	Heidarie Golafzani, S., Jamshidi Chenari, R. & Eslami, A.	2019
70	Complete general solution for Lord–Shulman generalized thermoelastodynamics by using potential functions for transversely isotropic solids	ACTA MECHANICA	Hayati, Y., Havaei, Gh. & Eslami, A.	2019
69	Experimental investigation of the densification properties of clay soil mixes with tire waste	CIVIL ENGINEERING JOURNAL	Akbarimehr, D., Aflaki, E. & Eslami, A.	2019
68	AUT: Geo-CPT&Pile database geotechnical, CPT/CPTu and pile loading test records	SEAGS & AGSSEA JOURNAL	Eslami, A. & Moshfeghi, S.	2019
67	Investigation of geotechnical properties of clayey soils contaminated with gasoil using response surface methodology (RSM)	SI, SCIENTIA IRANICA	Mir Mohammad Hosseini, F., Ebadi, T., Eslami, A., Mir Mohammad Hosseini, S. M., & Jahangard, H. R.	2019
66	Prediction of drained soil shear strength parameters of marine deposit from CPTu data using GMDH-type neural network	MGG, MARINE GEORESOURCES & GEOTECHNOLOGY	Mola-Abasi, H. & Eslami, A.	2019
65	Geotechnical properties of Rasht clay and silt in northern Iran	IGE, INTERNATIONAL JOURNAL OF GEOTECHNICAL ENGINEERING,	Akbarzadeh Kasani, H. & Eslami, A.	2019
64	Evaluating the geotechnical and geophysical characteristics of expanding districts in Tehran using field experiments	CIVIL ENGINEERING JOURNAL	Razmyar, A. & Eslami, A.	2018
63	Complications caused by neighboring and building construction in urban areas- three case studies	INTERNATIONAL JOURNAL OF SUSTAINABLE ENERGY AND ENVIRONMENTAL RESEARCH	Moghadasi, H. & Eslami, A.	2018
62	Reply to discussion on “empirical methods for determining shaft bearing capacity of semi-deep foundations socketed in rocks”	ROCK MECHANICS AND GEOTECHNICAL ENGINEERING	Rezazadeh, S. & Eslami, A.	2018
61	Non-stationary realisation of CPT data: considering lithological and inherent heterogeneity	GEORISK: ASSESSMENT AND MANAGEMENT OF RISK FOR ENGINEERED SYSTEM AND GEOHAZARDS	Jamshidi, R., Kamyab Frahbakhsh, H., Heidari Golafzani, S., & Eslami	2018
60	Semi-deep skirted foundation and numerical solution to evaluate their bearing capacity	OPEN JOURNAL OF GEOLOGY	Esmaili, K., & Eslami, A.	2018
59	Reliability-based assessment of drilled displacement piles bearing capacity using CPT records	MGG, MARINE GEORESOURCES & GEOTECHNOLOGY	Moshfeghi, S. & Eslami, A.	2018



58	Failure analysis of CPT-based direct methods for axial capacity of driven piles in sand	GEORISK: ASSESSMENT AND MANAGEMENT OF RISK FOR ENGINEERED SYSTEM AND GEOHAZARDS	Moshfeghi, S. & Eslami, A.	2018
57	Axial compressive bearing capacity of piles in oil-contaminated sandy soil by using FCV	MGG, MARINE GEORESOURCES & GEOTECHNOLOGY	Mohammadi, A., Ebadi, T., Eslami, A., Sjoerd E. A. T. & Van Der Zee, M.	2018
56	Study on pile ultimate capacity criteria and CPT based direct methods	IGE, INTERNATIONAL JOURNAL OF GEOTECHNICAL ENGINEERING,	Moshfeghi, S. & Eslami, A.	2018
55	CPT-Based Approach to Study the Load-Displacement Behavior of Driven Piles by the New Method of Stress Characteristics	SPRINGER NATURE SWITZERLAND	Valikhah, F., Eslami, A. & Veiskarami, M.	2018
54	Geotechnical characterization of soils in the eastern and western areas of Tehran	ENGINEERING, TECHNOLOGY & APPLIED SCIENCE RESEARCH	Razmyar, A. & Eslami, A.	2017
53	Ground subsidence in plains around Tehran: site survey, records compilation and analysis	LJGE, INTERNATIONAL JOURNAL OF GEO-ENGINEERING	Pirouzi, A. & Eslami, A.	2017
52	A study of the axial load behaviour of helical piles in sand by frustum confining vessel	INTERNATIONAL JOURNAL OF PHYSICAL MODELLING IN GEOTECHNICS, ICE	Eslami, A., Askari Fateh, A. M. & Fahimifar, A.	2017
51	Settlement evaluation of explosive compaction in saturated sands	SDEE, SOIL DYNAMICS AND EARTHQUAKE ENGINEERING,	Daryai, R. & Eslami, A.	2017
50	Study of pile behavior by improvement of confining soils using frustum confining vessel	SI, SCIENTIA IRANICA, SHARIF UNIVERSITY OF TECHNOLOGY	Karimi, A., Eslami, A., Zarrabi, M. & Khazaei, J.	2017
49	Empirical methods for determining shaft bearing capacity of semi-deep foundations socketed in rocks	ROCK MECHANICS AND GEOTECHNICAL ENGINEERING	Rezazadeh, S., & Eslami, A.	2017
48	Mitigating the seismic settlement of foundations on sand by ground	PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-GEOTECHNICAL ENGINEERING, ICE	Ahmadi, H., Eslami, A. & Arabani, M.	2017
47	Properties of fine soils contaminated with gas oil	MATERIAL TESTING	Mir Mohammad Hosseini, F., Ebadi, T. & Eslami, A.	2017
46	Bearing capacity of semi-deep skirted foundations on clay using stress characteristics and finite element analyses	MGG, MARINE GEORESOURCES & GEOTECHNOLOGY	Rezazadeh, S. & Eslami, A.	2017
45	Seawall case studies and failure analysis of sloped concrete walls under static and dynamic loads	MGG, MARINE GEORESOURCES & GEOTECHNOLOGY	Eslami, M. & Eslami, A.	2017
44	Shear strength behavior of crude Oil contaminated sand-concrete interface	GEOMECHANICS AND ENGINEERING	Mohammadi A. H., Ebadi, T. & Eslami, A.	2017
43	Study of pile behavior by improvement of confining soils using frustum confining vessel	SI, SCIENTIA IRANICA	Karimi, A. H., Eslami, A., Zarrabi, M. & Khazaei, J.	2017
42	Direct CPT and CPTu methods for determining bearing capacity of helical piles	MGG, MARINE GEORESOURCES & GEOTECHNOLOGY	Askari Fateh, A. M., Eslami, A. & Fahimifar, A.	2017
41	Post-grouted helical piles behavior via physical modeling by FCV	MGG, MARINE GEORESOURCES & GEOTECHNOLOGY	Khazaei, J. & Eslami, A.	2017
40	Ground improvement and foundation practice for Persian Gulf bridge (causeway); Bandar Abbass harbour – Qeshm Island	MGG, MARINE GEORESOURCES & GEOTECHNOLOGY	Asadi, F., Eslami, A. & Valikhah, F.	2017

39	Experimental study on the settlement of marine deposits of Anzali under cyclic loading by laminar box apparatus	MGG, MARINE GEORESOURCES & GEOTECHNOLOGY	Ahmadi, H., Eslami, A. & Arabani, M.	2017
38	CPT-based investigation by direct and indirect approaches for pile toe and shaft resistances distribution	GEGE, JOURNAL OF GEOTECHNICAL AND GEOLOGICAL ENGINEERING,	Eslami, A., Valikhah, F., Veiskarami, M.& Salehi, M.	2017
37	Physical modeling for pile performance combined with ground improvement using frustum confining vessel (FCV)	INTERNATIONAL JOURNAL OF PHYSICAL MODELLING IN GEOTECHNICS, ICE	Karimi, A. H.& Eslami, A.	2017
36	Study of soil disturbance effect on bearing capacity of helical pile by experimental modelling in FCV	INTERNATIONAL JOURNAL OF GEOTECHNICAL ENGINEERING, IGE	Askari Fateh, A. M., Eslami, A.& Fahimifar, A.	2017
35	Geotechnical behavior of helical piles via physical modeling by frustum confining vessel (FCV)	INTERNATIONAL JOURNAL OF GEOGRAPHY AND GEOLOGY	Khazaie, J. & Eslami, A.	2016
34	Geotechnical aspects of explosive compaction	SHOCK AND VIBRATION	Shakeran, M., Eslami, A., & Ahmadvpour, M.	2016
33	Behavior of helical piles – as a geoenvironmental choice – by frustum confining vessel	ADVANCES IN SCIENCE AND TECHNOLOGY RESEARCH JOURNAL	Khazaie, J.& Eslami, A.	2016
32	Assessment of Babolsar concrete pedestrian bridge failure for 1964 flood event and retrofitting practice	EFA, ENGINEERING FAILURE ANALYSIS	Eslami, A., Heidarie Golaftani, S. & Jamshidi Chenari, R.	2016
31	CPT-based evaluation of blast densification (BD) performance in loose deposits with settlement and resistance considerations	GEOTECHNICAL GEOLOGY	Eslami, A., Pirouzi, A. & J.M.Omar	2015
30	Drained soil shear strength parameters from CPTu data for marine deposits by analytical model	SAOS, SHIPS AND OFFSHORE STRUCTURES,	Eslami, A., Mohammadi, A.	2015
29	Deltaic soil behavior classification (SBC) using CPTu records- proposed approach and applied to fifty four case histories	MGG, MARINE GEORESOURCES & GEOTECHNOLOGY	Eslami, A., Alimirzaei, M., Aflaki, E. & Molaabasi, H.	2015
28	Behavior of piles under different installation effects by physical modeling	IJOG, INTERNATIONAL JOURNAL OF GEOMECHANICS, ASCE	Zarrabi, M. & Eslami, A.	2015
27	Characterization of sedimentary Anzali sand for static and seismic studies purposes	IJGG, INTERNATIONAL JOURNAL OF GEOGRAPHY AND GEOLOGY	Ahmadi, H., Eslami, A.& Arabani, M.	2015
26	Effects of freeze-thaw cycles on a fiber reinforced fine grained soil in relation to geotechnical parameters	COLD REGIONS SCIENCE AND TECHNOLOGY	Roustaie, M., Eslami, A. & Ghazavi, M.	2015
25	Investigation of explosive compaction (EC) for liquefaction mitigation using CPT records	BEE, BULLETIN OF EARTHQUAKE ENGINEERING,	Eslami, A.	2015
24	Analytical and experimental study of land subsidence in southwestern area of Tehran	VITAE-REVISTA DE LA FACULTAD DE QUIMICA FARMACEUTICA	Pirozi, A. Eslami, A. Kharaghani, S.& Tavousi Tafreshi, S.	2014
23	Settlement prediction for problematic soils improved by explosive compaction (EC) method	VITAE-REVISTA DE LA FACULTAD DE QUIMICA FARMACEUTICA	Tavakoli, B. Shakeran, M. & Eslami, A.	2014
22	Study on the failure behavior of three different stabilized problematic soils	SI, SCIENTIA IRANICA	Aflaki, E. Sedighi, P.& Eslami, A.	2014
21	A polynomial model for predicting liquefaction potential from cone penetration test data	SI, SCIENTIA IRANICA	Eslami, A. Molaabasi, H. & Tabatabaie, P.	2014

20	Study of deep foundation performances by frustum confining vessel (FCV)	IJCE, INTERNATIONAL JOURNAL OF CIVIL ENGINEERING,	Zaredorabi, M. & Eslami, A.	2014
19	Efficiency of methods for determining pile axial capacity-applied to 70 cases histories in Persian Gulf northern shore	IJCE, INTERNATIONAL JOURNAL OF CIVIL ENGINEERING,	Eslami, A. Tajvidi, I. & Karimpor Fard, M.	2014
18	Assessment of the likelihood of suffusion in alluvial soils: case history	BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT	Khaksar Najafi, E.& Eslami, A.	2014
17	Experimental study on stiffness properties of non-engineered clay and granular fills	ARABIAN JOURNAL OF GEOSCIENCES	Eslami, A. Ahmadnezhad, M. Eslami Kenarsari, A.& Rezazadeh Mirsadeghi, S.	2014
16	Analytical approach for determination of soil shear strength parameters from CPT and CPTu data	AJSE, ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING	Motaghedi, H. & Eslami, A.	2014
15	Determining soil shear strength parameters from CPT and CPTu data	SI, SCIENTIA IRANICA	Motaghedi, H.& Eslami, A.	2013
14	Scale effect aspects for correlation CPTu data in deep foundation analysis and design	LIFE SCIENCE JOURNAL	Rezazadeh, S., Eslami, A., & Jafary Shalkoohi, A.	2013
13	Characterization of the correlation structure of residual CPT profiles in sand deposits	IJCE, INTERNATIONAL JOURNAL OF CIVIL ENGINEERING,	Eslami Kenarsari, A.& Jamshidi Chenari, R.	2013
12	Share wave velocity by polynomial neural networks and genetic algorithms based on geotechnical soil properties	AJSE, ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING	Mola-Abasi, H., Eslami, A., Tabatabaie Shourijeh, P.	2013
11	Comparison of shear pile force and moment in slippage reinforced with shear pile	LIFE SCIENCE JOURNAL	Mohamadi, M., Eslami, A., & Nabizade, F.	2012
10	Study on optimized piled-raft foundations (PRF) performance with connected and non-connected piles- three case histories	IJCE, INTERNATIONAL JOURNAL OF CIVIL ENGINEERING,	Eslami, A., Veiskarami, M., & Eslami, M.	2012
9	Evaluating CPT and CPTu based pile bearing capacity estimation methods using Urmiyeh Lake causeway piling records	SI, SCIENTIA IRANICA	Eslami, A., Aflaki, E., & Hosseini, B.	2011
8	Analysis of non-connected piled raft foundations (NCPRF) with cushion by finite element method	CMCE, COMPUTATIONAL METHODS IN CIVIL ENGINEERING(CMCE)	Eslami, A., & Salehi Malekshah, S.	2011
7	End-bearing capacity of driven piles in sand using the stress characteristics method: analysis and implementation	CGJ, CANADIAN GEOTECHNICAL JOURNAL	Veiskarami, M., Eslami, A., & Kumar, J.	2011
6	Piles shaft capacity from CPT and CPTu data by polynomial neural networks and genetic algorithms.	COMGEO, COMPUTERS AND GEOTECHNICS JOURNAL	Ardalan, H. Eslami, A. & Nariman-Zadeh, N.	2009
5	Bearing capacity of driven piles in sands from SPT-applied to 60 case histories	IJST, IRANIAN JOURNAL OF SCIENCE & TECHNOLOGY,	Shariatmadari, N. Eslami, A. & Karimpour, M.	2008
4	Analytical model for ultimate bearing capacity of foundations from cone resistance	SI, SCIENTIA IRANICA,	Eslami, A. & Gholami, M.	2006
3	CPT and CPTu data for soil profile interpretation, review of methods and proposed new approach	IJST, IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY,	Eslami, A., & Fellenius, B. H.	2004

2	Pile capacity by direct CPT and CPTu methods applied to 102 case histories	CGJ, CANADIAN GEOTECHNICAL JOURNAL	Eslami, A., & Fellenius, B. H.	1997
1	Capacity of piles from CPT data, U1995	DFI, DEEP FOUNDATION MAGAZINE	Eslami, A., & Fellenius, B. H.	1995

### C. National Journal Papers

19	Investigation of Load-Displacement Behavior of Helical Pile in Wet and Saturated Sand with FCV Apparatus	JOURNAL of STRUCTURE and CONSTRUCTION ENGINEERING	Jassim, A., Ganjian, N. & Eslami, A.	2022
18	Laboratory Study of the Helical Piles Behavior Under Reciprocal Loading Via Frustum Confining Vessel (AUT-FCV)	JOURNAL of STRUCTURE and CONSTRUCTION ENGINEERING	Safikhani, H., Eslami, A., Ganjian, N. & Bahmanpour, A.	2022
17	Investigation of negative friction in vertical and sloped piles using numerical modeling	SHARIF JOURNAL OF ENGINEERING	Hajitaheri, M. M., Hasanloord, M., & Eslami, A.	2015
16	Scale Effect Aspects for Correlation CPT Data in Foundation Analysis and Design	JOURNAL OF CIVIL AND ENVIRONMENTAL ENGINEERING,	Eslami, A., Ziaabadi, M., Tamimi, M., & Rezazadeh, S.	2013
15	Cement effect on strength parameters in problematic soils located on southern coast of the Caspian Sea	SHARIF JOURNAL OF ENGINEERING.	Sedighi, P., Eslami, A., & Aflaki, E.	2013
14	Settlement from explosive improvement in loose and saturated deposits: Application in 18 case studies.	JOURNAL OF CIVIL AND ENVIRONMENTAL ENGINEERING	Shakeran, M., Eslami, A.,	2013
13	Investigation of empirical methods for determining bearing capacity of rock-socketed piles	SHARIF UNIVERSITY OF TECHNOLOGY	Rezazadeh, S., Eslami, A., & Jafary Shalkoohi, A.	2013
12	Dashtegan-Rudbar Huge Landslide (Rasht-Qazvin, Freeway Route): investigation and method of stabilization	MASHHAD UNIVERSITY OF FERDOSY	Ekramifard, A., Eslami, A. & Razeghi	2012
11	Analysis of non-connected piled raft foundations (NCPRF) with cushion by finite element method	COMPUTATIONAL METHODS IN CIVIL ENGINEERING	Eslami, A. & Salehi Malekshah, S.	2011
10	Application of CPT data for estimating foundations settlement-case histories	SHARIF JOURNAL OF ENGINEERING	Malekdoost, M., & Eslami, A.	2011
9	A Practical approach for liquefaction analysis using piezocone (CPTu) data	SHARIF UNIVERSITY OF TECHNOLOGY	Kangarani, M. R., Ahmadi, M. & Eslami, A.,	2011
8	Pile axial bearing capacity assessment by CPTu data in marine environments of Iran	SHARIF UNIVERSITY OF TECHNOLOGY	Hosseini, B., & Eslami, A.	2011

7	Using CPT and CPTu data for evaluation of soil shear strength parameters-sixteen case records	MASHHAD UNIVERSITY OF FERDOSY	Eslami, A.	2010
6	Investigation of Anzali harbor sand behavior using glass tank and vibration table	SHARIF JOURNAL OF ENGINEERING	Asefi, A., Eslami, A., & Lashteneshaie, M.	2009
5	Quantity control of geotechnical properties for ground improvement by CPT and CPTu results	SHARIF JOURNAL OF ENGINEERING	Eslami, A. Mehrdad, M. & Khosravi	2009
4	Utilization of micro fine cement for ground improvement	NEW DEVELOPMENTS IN BUILDING AND HOUSING	Hamidzadeh, N., Eslami, A. & Lame, F.	2005
3	Determining ultimate capacity of deep foundations using SPT and/or SPT- CPT equivalent results	MASHHAD UNIVERSITY OF FERDOSY	Eslami, A. Shariatmadari, N., & Karimpour Fard, M.	2005
2	Comparison of methods for determining bearing capacity of piles using standard penetration test (SPT) data	ESTEGHLAL JOURNAL OF ENGINEERING, ISFAHAN UNIVERSITY OF TECHNOLOGY	ESLAMI, A., Karimpour Fard, M. & Shariatmadari, N.	2005
1	Bearing capacity analysis of shallow foundations from CPT Data	AMIRKABIR JOURNAL OF SCIENCE & TECHNOLOGY	Eslami, A. & Gholami, M.	2003

#### D. International Conference Papers

<b>No.</b>	<b>Title</b>	<b>Conference</b>	<b>Authors</b>	<b>Year</b>
47	Helical pile in loess deposits as replacement of shallow foundations, studying Golestan site	47 <sup>th</sup> Annual Conference on Deep Foundations	Arabameri, m., Heidarie Golafzani, S., Eslami, A.,	2022
46	Prospects on data mining approach for pile geotechnical design utilizing CPT and CPTu records, case study: AUT database	5 <sup>th</sup> international symposium on cone penetration testing (CPT 22)	Eslami, A., Heidarie Golafzani, S., & Moshfeghi, S.	2022
45	Assessment of deltaic soil behavior classification using AUT: GMD database regarding CPTu records	5 <sup>th</sup> international symposium on cone penetration testing (CPT 22)	Naghbi, M.H., Eslami, A.,  & Heidarie Golafzani, S.	2022
44	Uncertainty and reliability appraisal of CPT- based methods for axial pile bearing capacity	46 <sup>th</sup> Annual Conference on Deep Foundations	Heidarie Golafzani, S., & Eslami, A.	2021
43	CPT and pile database for performance-based design of pile axial bearing capacity	45 <sup>th</sup> Annual Conference on Deep Foundations	Eslami, A., Heidarie Golafzani, S., & Moshfeghi, S.	2020

42	Statistical evaluation of the performance of Frustum Confining (FCV-AUT)	6 <sup>th</sup> National Conference on Applied Research in Civil Engineering & Architecture and Urban Management	Eslami, A. & Janmohammadi, P.	2019
41	Performance evaluation of physical model of piles in by frustum confining vessel	11 <sup>th</sup> International Congress on Civil Engineering	Esmailzade, M., Aflaki, E., & Eslami, A.	2018
40	Control and seismic retrofit with friction dampers for steel structures	4 <sup>th</sup> International Conference on Structural Engineering	Hayati, Y., Havaei, Gh., & Eslami, A.	2018
39	CPT-Based approach to study the load-displacement behavior of driven piles by the new method of stress characteristics	In Proceedings of China-Europe Conference on Geotechnical Engineering	Valikhah, F., Eslami, A. & Veiskarami, M.	2018
38	Application of the observational method (OM) in adaptive design of deep urban excavations	5 <sup>th</sup> International Conference on Geotechnical Engineering and Soil Mechanics	Alipour, A., Barkadehi, & Eslami, A.	2016
37	Zoning of soil deposits for efficient application of explosive compaction	5 <sup>th</sup> International Conference on Geotechnical Engineering and Soil Mechanics	Shakeran, M., & Eslami, A.	2016
36	Shear strength behavior of gasoil contaminated sand-steel interface	5 <sup>th</sup> International Conference on Geotechnical Engineering and Soil Mechanics	Aliasghar, A., Mohammadi, H., A.H., Ebadi, T., & Eslami, A.	2016
35	CPT-based approach to estimate foundations settlement on sand	5 <sup>th</sup> International Conference on Geotechnical Engineering and Soil Mechanics	Valikhah, F., & Eslami, A.	2016
34	Performance investigation of physical modeling of different piles in FCV	5 <sup>th</sup> International Conference on Geotechnical Engineering and Soil Mechanics	Esmailzade, M., Eslami, A., Askari Fateh, A. M.	2016
33	Performance investigation of retaining structure considering internal and external stiffness in deep excavations	5 <sup>th</sup> International Conference on Geotechnical Engineering and Soil Mechanics	Yasrebi, H., & Eslami, A.	2016
32	Evaluation of behavior of retaining structures combined diaphragm wall	5 <sup>th</sup> International Conference on Geotechnical Engineering and Soil Mechanics	Minaeijavid, M., Rahai, A., & Eslami, A.	2016
31	Numerical Analysis of Diaphragm retaining wall with Prestressed Anchors	5 <sup>th</sup> International Conference on Geotechnical Engineering and Soil Mechanics	Minaeijavid, M., Rahai, A., & Eslami, A.	2016
30	Optimum Considerations for Control of Large Urban Excavation Displacement	2 <sup>nd</sup> Geotechnical Engineering Conference	Yasrebi, H., & Eslami, A.	2015
29	AUT-CPT&Pile Database for piling performance using CPT and CPTu records	40 <sup>th</sup> Annual Conference on Deep Foundations	Moshfeghi, S., Eslami, A., & Mir Mohammad Hosseini, S.M.	2015
28	Physical modeling for study of Anzali sand settlement improved by cement grouting	2 <sup>nd</sup> Geotechnical Engineering Conference	Ahmadi, A., Eslami, A., & Arabani, M.	2015
27	Optimum geotechnical design of bridge deep foundations using adaptive approaches	2 <sup>nd</sup> Geotechnical Engineering Conference	Jafary Shalkoohi, A., Eslami, A., & Torabi, H	2015
26	Experimental determination for stiffness of Anzali sand by laminar box and discrete element method(DEM)	2 <sup>nd</sup> Geotechnical Engineering Conference	Ahmadi, H., Eslami, A., & Arabani, M.	2015
25	Dynamic settlement considerations in foundation design located on uniform fine sand	2 <sup>nd</sup> International Conference on Geotechnical and Urban Earthquake Engineering	Ahmadi, H., Eslami, A., & Arabani, M.	2015

24	Introducing of transparent laminar box equipment developed in Guilan University	2 <sup>nd</sup> International Conference on Geotechnical and Urban Earthquake Engineering	Ahmadi, H., Eslami, A., & Arabani, M	2015
23	AUT- CPT & Pile Database- CPT data and pile loading test records correlation	4 <sup>th</sup> International Conference on Bridges	Moshfeghi, S., Eslami, A., & Mir Mohammad Hosseini, S.M.	2015
22	Repair and rehabilitation of Babolsar pedestrian concrete bridge; study, construction and utilization	4 <sup>th</sup> International Conference on Bridges	Ahmadnezhad, M., Eslami, A., & Akbari, A.	2015
21	Investigation of energy pile performance and its evaluation on Iran bridge engineering	4 <sup>th</sup> International Conference on Bridges	Zolfaghari, P., & Eslami, A.	2015
20	A study on the substructure of Persian Gulf national bridge	4 <sup>th</sup> International Conference on Bridges	Valikhah, F., Asadi, F., & Eslami, A.	2015
19	Study on box and PRF semi-deep foundations behavior in bridge engineering	4 <sup>th</sup> International Conference on Bridges	Mousavian, S.A. Hejazi, & Eslami, A.	2015
18	AUT -CPT & pile data bank including pile load testing and CPT records	1 <sup>st</sup> National conference on soil mechanics and foundation engineering	Moshfeghi, S., Eslami, A., & Mir Mohammad Hosseini, S.M.	2014
17	Geotechnical site investigations of Persian Gulf causeway bridge	1 <sup>st</sup> National conference on soil mechanics and foundation engineering	Asadi, F., Valikhah, F., & Eslami, A.	2014
16	study of helical piles bearing capacity using FCV (frustum confining vessel)	1 <sup>st</sup> National conference on soil mechanics and foundation engineering	Khazaei, J., Eslami, A., Karimi, A. H., & Zarabi, M.	2014
15	pile performance by FCV in improved soils	1 <sup>st</sup> National conference on soil mechanics and foundation engineering	Karimi, A.H., Eslami, A., Zarabi, M., & Khazaei, J.	2014
14	Evaluation of construction effects of piles using FCV (frustum confining vessel)	1 <sup>st</sup> National conference on soil mechanics and foundation engineering	Zarabi, M., Eslami, A., Karimi, A.H., & Khazaei, J.	2014
13	Evaluation of determinant parameters for thickening the engineered fills layers	Proceedings of the new trends in transport phenomena	Yarbakhti, P., & Eslami, A.	2014
12	Analytical approach for determining soil shear strength parameters from CPT and CPTu data	Proceedings of the 18 <sup>th</sup> International Conference on Soil Mechanics and Geotechnical Engineering	Motaghedi, H., Eslami, A., & Shakeran, M.	2013
11	Pile shaft capacity from cone penetration test (CPT) records; considering scale effects	38 <sup>th</sup> Annual Conference on Deep Foundations	Eslami, A., Lotfi, S., & Eslami, M.	2013
10	Frustum confining vessel (FCV) for investigation of deep foundation performance	38 <sup>th</sup> Annual Conference on Deep Foundations	Zaredorabi, M., Eslami, A., Abranj, A., & Asadi, A.	2013
9	Geotechnical behavior of cement treated soils southern coast line of Caspian Sea	2 <sup>nd</sup> International Transportation Geotechnics in Sapporo	Sedighi, & Eslami, A.	2012
8	Evaluation of deep soil Improvement in problematic soils using CPT and CPTu data	9 <sup>th</sup> international congress on civil engineering	Shakeran, M., Farhadi Nasl, H., & Eslami, A.	2012
7	Numerical study of floating foundation performance with side walls	9 <sup>th</sup> international congress on civil engineering	Jahanara, D., & Eslami, A.	2012
6	Geotechnical aspects for design and performance of floating foundations	Geo-Frontiers 2011 © ASCE	Mohsenian, S., Eslami, A., & Kasaei	2011

5	Soil characterization in super soft, sensitive soils of Urmiyeh Lake	The 4 <sup>th</sup> Conference on Geotechnical Engineering and soil mechanics	Hosseini, B., & Eslami, A.	2010
4	Shaft bearing capacity determination by using the frictional data from CPTu tests with consideration of scale effects	The 4 <sup>th</sup> Conference on Geotechnical Engineering and soil mechanics	Amini, & Eslami, A.	2010
3	Ground vibration study due to pile driving and the control methods	The 4 <sup>th</sup> Conference on Geotechnical Engineering and soil mechanics	Rahbar Rastegar, R., Eslami, A., & Ghorbani, A.	2010
2	Comparison of in-situ and laboratory tests in evaluating the undrained shear strength of Rasht clay	The 4 <sup>th</sup> Conference on Geotechnical Engineering and soil mechanics	Sekhvatian, & Eslami, A.	2010
1	Toe bearing capacity of piles from cone penetration test (CPT) data	International symposium on cone penetration testing	Eslami, A.	1996