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ABOLFAZL (Abe) ESLAMI

PhD. & P.E.

Professor & Private Geotechnical Consultant | Irvine, CA, USA

CV



1- PROFESSIONAL SUMMARY

A globally recognized authority in geotechnical and foundation engineering, Dr. Eslami brings more than 35 years of integrated experience spanning academic research, graduate education, and high-stakes consulting across four continents. He is the co-developer of the widely adopted Eslami–Fellenius CPT Pile Capacity Method, validated against 102 case histories and referenced in leading US foundation engineering textbooks and the NAVFAC UFC (2025), and the creator of the AUT Geo-CPT/Pile and FELADD load-displacement databases, which serve as authoritative resources for design calibration and reliability analysis. He is the author of two major reference works published by Elsevier (2020) and Wiley (2026) and has supervised over 150 M.Sc. and 25 Ph.D. theses. His technical portfolio encompasses deep foundation design and review, CPT/CPTu-based design validation, ground improvement, slope stability, physical modeling, and forensic engineering. Dr. Eslami has led landmark projects involving offshore wind turbine foundations, liquefiable coastal deposits, high-rise structures, and major infrastructure across the Middle East, North America, and Europe, and regularly presents at premier venues including ASCE Geo-Congress and the Deep Foundations Institute (DFI). With a scholarly H-index of 35 and over 4,340 citations across 170+ peer-reviewed publications, he offers exceptional depth of knowledge, professional rigor, and a rare combination of field-proven methodology and scholarly credibility.

2- EDUCATION & CREDENTIALS

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

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

B.Sc., (1982-1985), *Graduated*; Civil Engineering, Sharif University of Technology (SUT), Tehran, Iran

B.Sc., (1978-1982), *Accepted & Started*; Faculty of Engineering, University of Tehran (UT), Tehran, Iran

3- ACADEMIA & LEADERSHIP

Senior Advisor, Medro Engineering Co., Los Angeles, CA, USA, 2022 - Present

Professor, Amirkabir University of Technology (AUT), 2007 - 2020, [Link](#)

Assistant & Associate Professor, Civil Engineering Department, University of Guilan, 1997 - 2007

Founder & Chairman, Sham-e Consulting Engineering Co., Tehran, Iran, 2000 - 2020

4- SUPERVISED GRADUATE STUDENTS

Over 150 M.Sc. and More than 25 Ph.D. Theses on:

- CPT & Pile; UniCone Method (Eslami & Fellenius, 1997) / AUT; Geo-CPT & Pile Database
- Physical Modeling: Frustum Confining Vessel (FCV-AUT) / 1g apparatus: adjacent foundations
- Piling Research Sites, Caspian Southern Shoreline: Anzali Harbor, Babolsar and Incheh Borun
- Load-Displacement Database (FELADD) and F-Sigma Program and Toolkits

5- VISITING SCHOLAR AND FELLOWSHIPS

- Civil Engineering Department, University of British Columbia (UBC), Canada, 1994
- Faculty of Mining Engineering, McGill University, Canada, 2017 - 2018
- University of Mining and Technology, China, 2020 - 2021
- Structural Engineering Dept., University of California, San Diego (UCSD), USA, 2022 - 2023
- Civil Engineering Department, University of Nevada, Las Vegas (UNLV), USA, 2021 – 2024

6- DELIVERED SHORT COURSES & WORKSHOPS

12	<i>“A Unified Approach to Foundation Engineering: CaSeLD”</i> , 2026, University of California, Berkeley
11	<i>“CPT and Pile Foundations: Past Insights, Present Trends, & Future Prospects”</i> , 2026, Salt Lake City, USA, held by Geo-Institute of ASCE
10	<i>“Enhancement of Deep Foundations Performance: CPT/CPTu & Case Histories”</i> , 2025, DeepEX LLC, USA
9	<i>“CPT & CPTu Application for Deep Foundations Geotechnical Design; Databased Approach”</i> , 2025, Louisville, USA, held by Geo-Institute of ASCE
8	<i>“Geotechnical & Foundation Engineering Aspects for Adjacent Buildings Construction”</i> , 2024, Sari, Mazandaran
7	<i>“Buildings Foundation System; Engineering Patterns Trend Sustainable Development”</i> , 2024, Rasht, Guilan
6	<i>“Cone Penetration Tests (CPT & CPTu) Records for Deep Foundations Geotechnical Design”</i> , June 2023, held by the University of California, San Diego
5	<i>“Foundations Systems of Tall Buildings: Stories Behind the Storeys”</i> , June 2022, held by Mazandaran Engineering Organization, Babolsar, Mazandaran
4	<i>“Piezocone and Cone Penetration Tests (CPTu & CPT) Applications in Geotechnical & Foundation Engineering”</i> , November 2022, held by State Key Laboratory for Geomechanics & Deep Underground Engineering (China University of Mining and Technology).
3	<i>“Development and Application of Databases in Deep Foundation Engineering”</i> New trends on Design and Construction of Deep Foundations (Piles), October 2019, held by IGS
2	<i>“Optimum Trends in Foundation Engineering; Effects of Construction on Adjacent Structures”</i> , third National Congress of Civil Engineers, August 2017, held by Mazandaran Engineering Organization.
1	<i>“Semi-deep Foundations”</i> Special foundations seminar, March 2016, held by IGS

7- KEYNOTE SPEECHES & INVITED LECTURES

14	<i>“Conceptual Axial Stress-Strain Behavior of Drilled Displacement Piles”</i> 50th Annual Conference on Deep Foundations, October 2025, held by Deep Foundations Institute (DFI)
13	<i>“Performance-Based Evaluation of Buildings Substructure Systems: Load-Displacement, Seismic, and Adjacent Construction Effects”</i> , 2025, 1st International Symposium on Near Field Construction Considerations
12	<i>“Insight on Foundation Systems Categorization; Form & Load Transfer Aspects”</i> , 2023, 13th International Congress on Civil Engineering, University of Science and Technology
11	<i>“Databased Approach for Cone Penetration Test (CPT & CPTu) Applications in Foundation Engineering”</i> , January 2023, held by Samueli School of Engineering (University of California, Irvine).
10	<i>“Why In-situ Testing in Geotechnical Engineering?”</i> , January 2022, held by Iranian Geotechnical Society, In-situ Testing Committee, Iran University of Science and Technology (IUST)
9	<i>“Uncertainty and Reliability Appraisal of CPT-Based Methods for Axial Pile Bearing Capacity”</i> 46th Annual Conference on Deep Foundations, October 2021, held by Deep Foundations Institute (DFI)
8	<i>“Ground Improvement Systems: Geotechnical and Structural Aspects”</i> 3rd International Conference on Structural Engineering, March 2017, held by ISSE

7	<i>“Physical Modelling via Frustum Confining Vessel, FCV-AUT”</i> University of Victoria, ON, Canada, December 2017, Sabbatical leave.
6	<i>“AUT; Geo-CPT&Pile Database”</i> Montreal Polytechnic, QC, Canada, December 2017, Sabbatical leave.
5	<i>“CPT and CPTu Applications for Piles (Direct and Indirect Approaches)”</i> McGill University, QC, Canada, December 2017, Sabbatical leave.
4	<i>“Hybrid Foundations”</i> 2nd national conference on Iranian structural engineering, March 2016, held by the Iranian Society of Structural Engineers.
3	<i>“New Trends in Foundation Engineering”</i> 2014, 1 st National Conference on Soil Mechanics and Foundation Engineering, Tehran
2	<i>“Evaluation of Determinant Parameters for Thickening the Engineered Fills Layers”</i> , 2014, Proceedings of the new trends in transport phenomena, University of Ottawa, ON, Canada.
1	<i>“Study on Box and PRF Semi-Deep Foundations Behavior in Bridge Engineering”</i> , 2015, 4 th International Conference on Bridges, Amirkabir University of Technology

8- AREAS OF EXPERTISE

- **Geotechnical Investigation & Reporting:** Dozens of Tall Buildings, Highways, Airports & Dams
- **Design & Consulting of Geo-Structures:** Foundation Systems, Retaining Walls & Shorings
- **Ground Improvement & Slope Stability Control:** Industrial, Residential & Transportation Fields
- **Leveling, Repair & Retrofitting:** Damaged Adjacent Buildings and Tilted/Distressed Structures
- **Sustainable Geotechnics:** Trending less artificial - more geomaterial and C&DWs recycling

9- KEY ENGINEERING PROJECTS

- **Storage Tanks, Persian Gulf Northern Coast:** Optimizing piled foundation systems
- **Guilan Deylaman Cement Complex:** Implementing large landslide control; DSM and drilled shafts
- **Fourth Bridge, Babolsar:** Pile integrity testing and substructure design, 600-m bridge
- **Ghasre Aseman Twin Towers:** Hybrid drilled shaft & micropiles foundation optimization
- **Amirabaad Tank Farm, Caspian Sea:** Sustainable ground improvement and hybrid foundation
- **North Sea Offshore Wind Turbine:** Feasibility & substructure design control, GBF foundation
- **Urmia Lake Causeway:** Implementation of CPTu records and methods for SBC and long pile design

10- RESEARCH INTERESTS

- Foundation Systems: Forms & Functions
- Foundations Load-Displacement Behavior
- Special Foundations
- Deep Foundations
- Ground 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)

11- TEACHING & PROFESSIONAL TRAINING

- 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

12- HONORS & RECOGNITIONS

- Supervising the thesis selected as the superior Ph.D. graduate project of the year 2021
- Selected author for verbal presentation in DFI 46th
- 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 the Civil Engineering Dept. in AUT, 2015.
- Selected as the top national engineer by the Iranian Society of Structural and Construction Engineering, in 2015.
- Selected as the Geotechnical Engineer of the Year by Tehran Construction Engineering Organization (TCEO), 2015.
- Received the Dadman Award for Lifetime Achievement in Civil Engineering from the National Foundation of Lasting Fame in 2015.
- Development and Implementation of Frustum Confining Vessel (FCV) for Penetration and Pile Testing, FCV-AUT, 2014.
- Four Inventions Licensed by Iranian Research 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".

13- INVENTION & PATENT

No.	Invention/Patent Title	Reg. number	Country	Contributors	Reg. date	Exp. date
1	<i>Sloped Porous Grid Seawalls</i>	82195	I.R. Iran	Eslami, A., Mohammadi, M., & Shirinzaban, M.	2014/02/1	2034/01/1
2	<i>Frustum Confining Vessel (FCV-AUT)</i>	82201	I.R. Iran	Zare, M. & Eslami, A.	2014/02/1	2034/01/1
3	<i>Cycle and Non-Cycle Simulation Machine of The Marine Conditions (Atmosphere and Splashing Zones) For Concrete and Other Samples</i>	82143	I.R. Iran	Mohammadi, M., Mohammadi, H., Ebadi, T., & Eslami, A.	2014/02/1	2033/12/1
4	<i>Attached Single Foundations</i>	82202	I.R. Iran	Eslami, A.	2014/02/1	2034/01/1
5	<i>Tire-Aggregate Piers (TAP)</i>	82144	I.R. Iran	Eslami, A., Mohammadi, M., & Fahimifar, A.	2014/02/1	2034/01/1
6	<i>Inclined Retaining Wall</i>	82203	I.R. Iran	Eslami, A., Mohammadi, H., & Ahmadi, H.	2014/02/1	2033/12/1
7	<i>Upgrading Ig Apparatus for Adjacent Foundations Study Along With Image Processing</i>	---	I.R. Iran	Eslami, A., & Moghadasi, H.	2023/9/15	

14- PUBLISHED BOOKS

- 1- Karakouzian, M. & Eslami, A. 2026. *Advanced Foundation Engineering, Principles, Performance and Prospect*, Wiley. [Link](#).
- 2- Eslami, A. Moshfeghi, S., Molaabasi, H., & Eslami, M., 2020. *Piezocoone and Cone Penetration Test (CPTu and CPT) Applications in Foundation Engineering*, ELSEVIER. [Link](#).
- 3- Eslami, A. et al., 2016. *Drilled Shafts: Construction Procedures and LRFD Design Methods*, (Translated in Farsi), Naghoos Press.
- 4- Eslami, A. and Sekhavatian, A., 2013. *Geotechnical Engineering: Design Application and Hazards*. Amirkabir University Press, (In Farsi).
- 5- Eslami, A. and Sekhavatian, A., 2013. *Geotechnical Engineering: Principles, Investigations and Interpretations*. Amirkabir University Press, (In Farsi).
- 6- Eslami, A. Ranjbar, M. Riazi, T. and Veiskarami, M., 2006. *Mat Foundation: Analysis, Design & Performance*. Guilan University Press, (In Farsi).
- 7- 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).
- 8- Eslami, A., 2005. *Foundation Engineering: Design & Construction*. Building and Housing Research Center, BHRC. No. B-437, 4th Edition (In Farsi).

15- PEER-REVIEWED PAPERS

Over 170 journal papers: About 4390 citations with an H-Index of 35. [Link](#).

A. International Journal Papers; More than 150

❖ Selected Cases:

No.	Title	Journal	Authors	Year
57	<i>Load-Displacement Assessment of T-Shaped Soil-Cement Columns Enhancement through Numerical Simulation</i>	Transportation Infrastructure Geotechnology	Eslami, A., Arjmand, A., Ebrahimipour, A., & Ebrahimiyan, P.	2026
56	<i>Strain-Based Performance of Drilled Displacement Piles through Load Tests and CPT Database</i>	Results in Engineering	Abolfazl Eslami, Amirhossein	2026

			Ebrahimipour, Arshiya Mehrazma	
55	<i>Numerical investigation of thermo-mechanical response and heat transfer in clay during thermal cone penetration testing</i>	Computers and Geotechnics	Jing Hu, Pin-Qiang Mo, Guo-Jun Cai, Zhao Lu, Abolfazl Eslami, & Hai-Sui Yu	2026
54	<i>Effects of soil moisture content and installation method on ultimate bearing capacity of pile in unsaturated silty sand</i>	Results in Engineering	Mohammad Mortezaee, Husain Shamsi, Abolfazl Eslami, & Seyed Abolhasan Naeni	2026
53	<i>Cyclic load-displacement behavior of piles via Frustum Confining Vessel</i>	Soil Dynamics and Earthquake Engineering	Mohammad Esmailzade, & Abolfazl Eslami	2025
52	<i>Physical Modeling Appraisal for Evaluating Tilt and Settlement Due to Adjacent Building Construction</i>	Iranian Journal of Science and Technology, Transactions of Civil Engineering	Eslami, A., Moghadasi, H. and Akbarimehr D.	2025
51	<i>Appraisal of load-displacement behavior of granular Columns: Data-Centric approach</i>	Ocean Engineering	Arjmand, A., Eslami, A., Ebrahimiyan, P., Heidarie Golafzani, S., Ebrahimipour, A.	2025
50	<i>Conical Helical Piles Behavior Assessment through Physical Modeling and Field Testing</i>	Transportation Infrastructure Geotechnology	Nazmi, M., & Eslami, A.	2025
49	<i>Performance of Composite Piled Raft Foundations with Long and Short Piles Under Static and Seismic Loading</i>	Geotechnical and Geological Engineering	Akbari, A., & Eslami, A.	2025
48	<i>Sustainable Ground Improvement and Hybrid Foundation for Tank Farm on Liquefiable Coastal Deposit: Case Study</i>	Marine Georesources and Geotechnology	Eslami, A., Ebrahimipour, A., Fattahi, S.M., Omrani Rekavandi, A., Moazzami, A. & Khoshbakhty, K.	2025
47	<i>Experimental study on performance and enhanced methods of helical piles using Frustum Confining Vessel in Anzali Sand</i>	Ocean Engineering	Esmailzade, M, & Eslami, A.	2025
46	<i>Investigation of the Load-Displacement Behavior of Helical Piles in Sand through Novel Instrumentation</i>	Iranian Journal of Science and Technology	Akbari Zare, A., Eslami, A., Razmkhah, A. & Vosoughifar, H.	2025
45	<i>Pore Water Pressure Generation and Sensitivity Aspects for Pile Dynamics and Capacity Loss: CPTu Records and Case Studies</i>	Soil Dynamics and Earthquake Engineering	Eslami, A., Shadlou, D., & Ebrahimipour, A.	2025
44	<i>Raft Foundations under Combined Vertical-Moment-Horizontal Loading: A Numerical Study on Design-Adaptive Serviceability</i>	Transportation Infrastructure Geotechnology	Eslami, A., & Ebrahimipour, A.	2025
43	<i>New approach for the numerical analysis of stiffened deep cement mixing columns and piles in coastal engineering through 1D elements</i>	Ocean Engineering	Abolfazl Eslami, Ali Arjmand, Arman Ardehe, Amirhossein Ebrahimipour, Masoud Nobahar, & Pin-Qiang Mo	2024
42	<i>Form and Load Transfer Aspects of Foundation Systems; Case-Based Implementation and Adaptation for Buildings</i>	Deep Underground Science & Engineering	Eslami, A., Ebrahimipour, A., Imani, M., Imam, R. and Mo, P.Q.	2024
41	<i>Bio-Electrokinetic Improvement of Deltaic Soil</i>	Journal of Rock Mechanics & Geotechnical Engineering	Nabizadeh, M., Soroush, A., Fattahi, S.M. & Eslami, A.	2024
40	<i>Appraisal of soil-cement columns load displacement behavior through full-scale tests database</i>	Marine Georesources and Geotechnology	Arjmand, A. & Eslami, A.	2024
39	<i>Load-displacement appraisal and analysis for driven piles; a data-centric approach</i>	COMGEO, Computers and Geotechnics	Eslami, A. & Ebrahimipour, A.	2024
38	<i>Assessment of adjacent foundations consequences and solutions for remediation via physical modeling</i>	SDEE, Soil Dynamics and Earthquake Engineering	Moghaddasi, H., Eslami, A., Akbarimehr, D. & Asgari, S.	2024
37	<i>Comparison of frustum confining vessel (FCV) and full-scale testing for helical and expanded piles geotechnical performance</i>	MGG, Marine Georesources and Geotechnology	Esmailzade, M, Eslami, A. & McCartney, JS.	2024
36	<i>Hyperbolic load-displacement analysis of helical and expanded piles: database approach</i>	Geotechnical Engineering	Rahimi, A., Eslami, A. & McCartney, JS.	2024
35	<i>Analytical study of piles behavior for marine challenging substructures</i>	Ocean Engineering	Ebrahimipour, A., & Eslami, A.	2024
34	<i>Cavity expansion-based Interpretation of CPTu data in Clays</i>	Geotechnique	Mo, P.Q. & Cai, G. & Jun Wang, K. & Eslami, A. & Sui Yu, H.	2024
33	<i>Dominant Factors in MiniCone, CPT & Pile Correlations: Databased Approach</i>	Deep Underground Science and	Shirani, S., Eslami, A.,	2023

		Engineering	Ebrahimipour, A. & Karakouzian, M.	
32	<i>Discrete element modelling of thermal penetration test with heating and cooling</i>	Computers and Geotechnics	Pin-Qiang Mo, Jing Hu, Yu-Chen Hu, Kuan-Jun Wang, Abolfazl Eslami, Liu Gao	2023
31	<i>Experimental Investigation of Helical Pile Performance for Loess Deposits Improvement</i>	DFI, Deep Foundation Journal	Eslami, A., Rostami, F., Heidarie Golafzani, S. & Arabameri, M.	2023
30	<i>Developed Triangular Charts; Deltaic CPTu-Based Soil Behavior Classification Using AUT: CPTu-Geo-Marine Database</i>	Probabilistic Engineering Mechanics	Eslami, A., Heidarie Golafzani, S., & Naghibi, M.H.	2022
29	<i>Optimized selection of axial pile bearing capacity predictive methods based on multi criteria decision making (MCDM) models and database approach</i>	Soft Computing Journal	Heidarie Golafzani, S., Eslami, A., Jamshidi Chenari, R., & Hamed Saghaian, M.	2022
28	<i>Failure analysis of clay soil-rubber waste mixture as a sustainable construction material</i>	Construction and Building Materials	Eslami, A. & Akbarimehr, D.	2021
27	<i>Geotechnical behaviour of clay soil mixed with rubber waste</i>	Journal of Cleaner Production	Akbarimehr, D., Eslami, A. & Aflaki, E.	2020
26	<i>Probabilistic assessment of model uncertainty for prediction of pile foundation bearing capacity; static analysis, SPT and CPT-based methods</i>	Geotechnical and Geological Engineering	Heidarie Golafzani, S., Eslami, A. & Jamshidi Chenari, R.	2020
25	<i>Pile shaft capacity from cone penetration test records considering scale effects</i>	International Journal of Geomechanics	Eslami, A., Lotfi, L., Infante, J.A., Moshfeghi, S. & Eslami, M.	2020
24	<i>Geotechnical site characterization of the Urmia Lake super-soft sediments using laboratory and CPTu records</i>	MGG, Marine Georesources and Geotechnology	Eslami, A., Akbarimehr, D., Aflaki, E. & Hajitaherha, M. M.	2019
23	<i>Self-expanded piles: a new approach to unconventional piles development</i>	MGG, Marine Georesources and Geotechnology	Shojaei, E., Eslami, A. & Ganjian, N.	2019
22	<i>Skirted semi-deep foundations behaviour on deposits with variable undrained shear strength</i>	SAOS, Ships and Offshore Structures	Rezazadeh, S. & Eslami, A.	2019
21	<i>Reliability based assessment of axial pile bearing capacity: static analysis, SPT and CPT-based methods</i>	Georisk: Assessment and Management of Risk for Engineered System and Geohazards	Heidarie Golafzani, S., Jamshidi Chenari, R. & Eslami, A.	2019
20	<i>Failure analysis of CPT-based direct methods for axial capacity of driven piles in sand</i>	Georisk: Assessment and Management of Risk for Engineered System and Geohazards	Moshfeghi, S. & Eslami, A.	2018
19	<i>Study on pile ultimate capacity criteria and CPT based direct methods</i>	IGE, International Journal of Geotechnical Engineering,	Moshfeghi, S. & Eslami, A.	2018
18	<i>CPT-Based Approach to Study the Load-Displacement Behavior of Driven Piles by the New Method of Stress Characteristics</i>	Springer Nature Switzerland	Valikhah, F., Eslami, A. & Veiskarami, M.	2018
17	<i>A study of the axial load behaviour of helical piles in sand by frustum confining vessel</i>	International Journal of Physical Modelling In Geotechnics, Ice	Eslami, A., Askari Fateh, A. M. & Fahimifar, A.	2017
16	<i>Settlement evaluation of explosive compaction in saturated sands</i>	SDEE, Soil Dynamics and Earthquake Engineering,	Daryai, R. & Eslami, A.	2017
15	<i>Empirical methods for determining shaft bearing capacity of semi-deep foundations socketed in rocks</i>	Rock Mechanics and Geotechnical Engineering	Rezazadeh, S., & Eslami, A.	2017
14	<i>Bearing capacity of semi-deep skirted foundations on clay using stress characteristics and finite element analyses</i>	MGG, Marine Georesources and Geotechnology	Rezazadeh, S. & Eslami, A.	2017
13	<i>Seawall case studies and failure analysis of sloped concrete walls under static and dynamic loads</i>	MGG, Marine Georesources and Geotechnology	Eslami, M. & Eslami, A.	2017
12	<i>Physical modeling for pile performance combined with ground improvement using frustum confining vessel (FCV)</i>	International Journal of Physical Modelling in Geotechnics, ICE	Karimi, A.H.& Eslami, A.	2017
11	<i>Geotechnical aspects of explosive compaction</i>	Shock and Vibration	Shakeran, M., Eslami, A., & Ahmadpour, M.	2016
10	<i>Assessment of Babolsar concrete pedestrian bridge failure for 1964 flood event and retrofitting practice</i>	EFA, Engineering Failure Analysis	Eslami, A., Heidarie Golafzani, S. & Jamshidi Chenari, R.	2016

9	<i>Drained soil shear strength parameters from CPTu data for marine deposits by analytical model</i>	SAOS, Ships and Offshore Structures,	Eslami, A., Mohammadi, A.	2015
8	<i>Behavior of piles under different installation effects by physical modeling</i>	IJOG, International Journal of Geomechanics, ASCE	Zarrabi, M. & Eslami, A.	2015
7	<i>Effects of freeze-thaw cycles on a fiber reinforced fine grained soil in relation to geotechnical parameters</i>	Cold Regions Science and Technology	Roustaei, M., Eslami, A. & Ghazavi, M.	2015
6	<i>Investigation of explosive compaction (EC) for liquefaction mitigation using CPT records</i>	BEE, Bulletin of Earthquake Engineering,	Eslami, A.	2015
5	<i>End-bearing capacity of driven piles in sand using the stress characteristics method: analysis and implementation</i>	CGJ, Canadian Geotechnical Journal	Veiskarami, M., Eslami, A., & Kumar, J.	2011
4	<i>Piles shaft capacity from CPT and CPTu data by polynomial neural networks and genetic algorithms.</i>	COMGEO, Computers and Geotechnics Journal	Ardalan, H. Eslami, A. & Nariman-Zadeh, N.	2009
3	<i>CPT and CPTu data for soil profile interpretation, review of methods and proposed new approach</i>	IJST, Iranian Journal of Science and Technology	Eslami, A., & Fellenius, B.H.	2004
2	<i>Pile capacity by direct CPT and CPTu methods applied to 102 case histories</i>	CGJ, Canadian Geotechnical Journal	Eslami, A., & Fellenius, B.H.	1997
1	<i>Capacity of piles from CPT data, U1995</i>	DFI, Deep Foundation Magazine	Eslami, A., & Fellenius, B.H.	1995

B. International Conference Papers; More than 60

❖ Selected Cases:

No.	Title	Conference	Authors	Year
22	<i>Variability Assessment of Helical Piles Performance via Geometric Conical Enhancement</i>	50 th Annual Conference on Deep Foundations	Heidarie Golafzani, S., Nazmi, M., & Eslami, A.	2025
21	<i>Conceptual Axial Stress-Strain Behavior Assessment of Drilled Displacement Piles Using Full-Scale Load Tests Database</i>	50 th Annual Conference on Deep Foundations	Eslami, A., Mehrzama, A., & Ebrahimipour, A.	2025
20	<i>Prospects for Bridge Foundation System Selection; Case-Based Implementation and Adaptation</i>	TRB 2025	Eslami, A., Karakouzian, M., Ebrahimipour, A., & Masoud, N.	2025
19	<i>Stability Prediction of Highway Slope on Highly Plastic Clay Using Particle Swarm Optimization (PSO)-Based Neural Network</i>	Geo-Congress 2024	Masoud, N., Han, F., Eslami, A., Khan, S., & Amini, F.	2024
18	<i>Helical pile in loess deposits as replacement of shallow foundations, studying Golestan site</i>	47 th Annual Conference on Deep Foundations	Arabameri, M., Heidarie Golafzani, S., Eslami, A.,	2022
17	<i>Prospects on data mining approach for pile geotechnical design utilizing CPT and CPTu records, case study: AUT database</i>	5 th international symposium on cone penetration testing (CPT 22)	Eslami, A., Heidarie Golafzani, S., & Moshfeghi, S.	2022
16	<i>Uncertainty and reliability appraisal of CPT-based methods for axial pile bearing capacity</i>	46 th Annual Conference on Deep Foundations	Heidarie Golafzani, S., & Eslami, A.	2021
15	<i>CPT and pile database for performance-based design of pile axial bearing capacity</i>	45 th Annual Conference on Deep Foundations	Eslami, A., Heidarie Golafzani, S., & Moshfeghi, S.	2020
14	<i>Performance evaluation of physical model of piles in by frustum confining vessel</i>	11 th International Congress on Civil Engineering	Esmailzade, M., Aflaki, E., & Eslami, A.	2018
13	<i>Control and seismic retrofit with friction dampers for steel structures</i>	4 th International Conference on Structural Engineering	Hayati, Y., Havaei, Gh., & Eslami, A.	2018
12	<i>Application of the observational method (OM) in adaptive design of deep urban excavations</i>	5 th International Conference on Geotechnical Engineering and Soil Mechanics	Alipour, A., Barkadehi, & Eslami, A.	2016
11	<i>Optimum Considerations for Control of Large Urban Excavation Displacement</i>	2 nd Geotechnical Engineering Conference	Yasrebi, H., & Eslami, A.	2015
10	<i>AUT-CPT&Pile Database for piling performance using CPT and CPTu records</i>	40 th Annual Conference on Deep Foundations	Moshfeghi, S., Eslami, A., & Mir Mohammad Hosseini, S.M.	2015
9	<i>Dynamic settlement considerations in foundation design located on uniform fine sand</i>	2 nd International Conference on Geotechnical and Urban Earthquake Engineering	Ahmadi, H., Eslami, A., & Arabani, M.	2015
8	<i>AUT- CPT & Pile Database- CPT data and pile loading test records correlation</i>	4 th International Conference on Bridges	Moshfeghi, S., Eslami, A., & Mir Mohammad Hosseini, S.M.	2015

7	<i>Evaluation of determinant parameters for thickening the engineered fills layers</i>	Proceedings of the new trends in transport phenomena	Yarbakhti, P., & Eslami, A.	2014
6	<i>Analytical approach for determining soil shear strength parameters from CPT and CPTu data</i>	Proceedings of the 18 th International Conference on Soil Mechanics and Geotechnical Engineering	Motaghedi, H., Eslami, A., & Shakeran, M.	2013
5	<i>Pile shaft capacity from cone penetration test (CPT) records; considering scale effects</i>	38 th Annual Conference on Deep Foundations	Eslami, A., Lotfi, S., & Eslami, M.	2013
4	<i>Geotechnical behavior of cement treated soils southern coast line of Caspian Sea</i>	2 nd International Transportation Geotechnics in Sapporo	Sedighi, & Eslami, A.	2012
3	<i>Evaluation of deep soil Improvement in problematic soils using CPT and CPTu data</i>	9 th international congress on civil engineering	Shakeran, M., Farhadi Nasl, H., & Eslami, A.	2012
2	<i>Geotechnical aspects for design and performance of floating foundations</i>	Geo-Frontiers 2011 © ASCE	Mohsenian, S., Eslami, A., & Kasaei	2011
1	<i>Soil characterization in super soft, sensitive soils of Urmiyeh Lake</i>	The 4 th Conference on Geotechnical Engineering and Soil Mechanics	Hosseini, B., & Eslami, A.	2010

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