CURRICULUM VITA

Mansour Mosallanezhad

• EDUCATION

Ph.D. Department of Civil Engineering (2002-2008)
Shiraz University, Shiraz, Iran
By course and research
The title of thesis: *The Investigation of Bearing Capacity Improvement of Granular Soils Using "Grid-Anchors"*
M.Sc. Department of Engineering (1998-2000)
Tarbiat Modares University (TMU), Tehran, Iran
By course and research
The title of thesis: *Prediction of Shallow Foundations Bearing Capacity on Layered Soils, Using Artificial Neural network.*
B.Sc. Department of Civil Engineering (1992-1996)
Shiraz University, Shiraz, Iran
B.Sc. degree in Civil Engineering
Page | 2
Sabbatical Department of Civil Engineering (2006)
Leave
Faculty of Engineering
University of Manitoba**,** Canada
The title of Research: *Large Scale Experimental Investigation of interaction Coefficient of Grid-Anchor System*

• Teaching Skills

Teaching undergraduate and graduate university courses related to Geotechnical Engineering, including:

• Undergraduate: Soil Mechanics, Foundation Design, Soil Mechanics Lab. ,Applied Geotechnical Engineering, Highway Design, Pavement, Concrete Structures, Strength of Materials, Surveying, Engineering Geology

• Graduate: Advanced Soil Mechanics, advanced Soil Mechanics Lab, Advanced Foundation Design, Deep Foundations, Soil Improvements, Deep Excavations
Page | 3

• AREA OF INTERESTS

1- Bearing Capacity of Reinforced Soil
2- Artificial Neural Networks and Genetic Algorithm
3- Slope Stability
4- Soil mechanic (both Field and Laboratory Research studies) and Application of sensors and instrument in Geotechnical Eng.
5- Numerical methods in Soil Mechanics and Geotechnical Engineering
6- Risk Assessment of Earthquake
7- Soil Improvement

8- Deep Excavation
9- Pile Design

• Published Papers in Academic Journals

1- Moayedi H, Nazir R, Foong L. K., Mosallanezhad M, Pradhan B, (2019) Experimental Investigation of Several Different Types of Soil Erosion Protection Systems- **Recent Advances in Geo-Environmental Engineering, Geomechanics and Geotechnics, and Geohazards**, 481-483

2- Hakimian S, Mosallanezhad M, (2019) The comparison of Laboratory tests and numerical analysis of pressure and tension bearing capacities of the new system of microbulb and micropile system on clay in Shiraz – Iran, **JOURNAL OF APPLIED ENGINEERING SCIENCES**, Accepted in press.

3- Razzazan S, Keshavarz A, Mosallanezhad M, (2019) Large-scale pullout testing and numerical evaluation of a new reinforcement system, **GEOSYNTHETICS INTERNATIONAL**, Accepted in press.

4- Moayedi H, Mehrabi M, Mosallanezhad M, Rashid A S, Pradhan B, (2018) Modification of landslide susceptibility mapping using optimized PSO-ANN technique, **Engineering with Computers**, DOI: 10.1007/s00366-018-0644-0

5- Razzazan S, Keshavarz A, Mosallanezhad M, (2018) Pullout behavior of polymeric strip in compacted dry granular soil under cyclic tensile load conditions, **Journal of Rock Mechanics and Geotechnical Engineering**, 10: 968-976.

6- Moayedi H, Nazir R, Mosallanezhad M, Noor R, Khalilpour M, (2018) Lateral deflection of piles in a multilayer soil medium. Case study: The Terengganu seaside platform, **Measurement**, 123: 185-192

7- **Mosallanezhad M**, Moayedi H (2017) Developing hybrid artificial neural network model for predicting uplift resistance of screw piles- **Arabian Journal of Geosciences** 10, DOI: 10.1007/s12517-017-3285-5

8- Moayedi H, **Mosallanezhad M** (2017) Physico-Chemical and Shrinkage Properties of Highly Organic Soil Treated with Non-traditional Additives, **Geotechnical and Geological Engineering**, 35: 1409-1419

9- **Mosallanezhad M**, Moayedi H (2017), Comparison Analysis of Bearing Capacity Approaches for the Strip Footing on Layered Soils, **Arabian J. of Science and Engineering**, 42: 3711-3711

10- Moayedi H, **Mosallanezhad M** (2017) Uplift resistance of belled and multi-belled piles in loose sand **Measurement-Journal of the International Measurement Confederation** 109:346-353

11- Mosallanezhad M., Sadat Taghavi S. H. (2017) Experimental analysis of large-scale pullout tests conducted on polyester anchored geogrid reinforcement systems**. Canadian Geotechnical Journal ,** 54:621-630

12-Mosallanezhad M., Sadat Taghavi S. H., Khadiv M. (2017) Large-scale pullout testing of a new 'rooted' geogrid.

International Journal of Physical Modelling in Geotechnics, 17:195-203

13- **Mosallanezhad M.**, Moayedi H. (2017) Evaluation of Maintained Load Test (MLT) and Pile Driving Analyzer (PDA) in Measuring Bearing Capacity of Driven Reinforced Concrete Piles**. Soil Mechanics and Foundation Engineering** , 54: 150-154

14- **Mosallanezhad M.**, Hataf N., Sadat Taghavi S.H. (2016) Experimental and Large-Scale Field Tests of Grid-Anchor System Performance in Increasing the Ultimate Bearing Capacity of Granular Soils. **Canadian Geotechnical Journal** 53: 1047-1058

15- Nazir R., Ghare S., **Mosallanezhad M**., Moayedi H. (2016) The influence of rainfall intensity on soil loss mass from cellular confined slopes **Measurement-Journal of the International Measurement Confederation** 81:13-25

16- **Mosallanezhad M.**, Alfaro M., Hataf N., Sadat Taghavi S.H. (2016) Performance of the new reinforcement system in the increase of shear strength of typical geogrid interface with soil. **Geotextiles and Geomembranes** 44:457-462

17- **Mosallanezhad M.**, Sadat Taghavi S.H., Hataf N., Alfaro M. (2016) Experimental and Numerical Studies of the Performance of the New Reinforcement System under Pull-out Conditions. **Geotextiles and Geomembranes** 44:70-80

18- **Mosallanezhad M.**, Nasiri I. (2015) A Novel Reinforcement to Improve the Bearing Capacity of Soil: Experimental

Investigation. **International Journal of Engineering & Tech nology Sciences** 3:123-134

19- **Mosallanezhad M.** (2015) Numerical bearing capacity study of strip footing resting on grid anchor's reinforced clayey slop. **International Journal of Engineering & Technology Sciences** 3:169-177

20- Nazir R., Moayedi H., **Mosallanezhad M.**, Turtiz A. (2015) Appraisal of reliable skin friction variation in a bored pile. **proceeding of the ICE-Geotechnical engineering** 168:75-85

21- Nazir R., Moayedi H., Pratikso A., **Mosallanezhad M.** (2015) The uplift load capacity of an enlarged base pier embedded in dry sand. **Arabian Journal of Geosciences** 8:7285-7296

22- Moayedi H., Nazir R., **Mosallanezhad M.** (2015) Determination of Reliable Stress and Strain Distribution Along Bored Piles. **Soil Mechanics And Foundation Engineering** 51:285-291

23- **Mosallanezhad M**., Bazyar M., Saboor M. (2015) Novel Strip-anchor for Pull-out Resistance in Cohesionless Soils **Measurement- Journal of the International Measurement Confederation** 62:187-196

1248- Kazemian S., Moayedi H., **Mosallanezhad M**. (2015) The Effect of Cement-Sodium Silicate Grout Compounds on Void Ratio and the Coefficient of Secondary Compression of Treated Fibrous Peat. **Journal of testing and evaluation** 43:1-7

25-Moayedi H., **Mosallanezhad M.**, Ramli N., Kazemian S. (2014) Peaty Soil Improvement by Using Cationic reagent Grout and Eletrokintic Method. **Geotechnical and Geological Engineering** 32:933-947

26- **Mosallanezhad M.**, Hataf N., Ghahramani A. (2010) Three Dimentional Bearing Capacity Analysis of Granular Soils, Reinforced with Innovative Grid-Anchor System. **Iranian Journal of Science and Technolgy- Transaction B(Civil Engineering)** 34:419-431
27- **Mosallanezhad M**., Hatatf N., Ghahramani A. (2008) Experimental Study of Bearing Capacity of Granular Soils, Reinforced with Innovative Grid-Anchor System. **Geotechnical and Geological Engineering** 26:299-312
28- Oliaei M., Hesabirad N., **Mosallanezhad M**. (2015) Numerical evaluation of lateral bearing capacity for fixed-head piles (inFarsi). **Sharif Journal of Science and Technology**
29- **Mosallanezhad M.**, Bazyar M., Amini F. (2014)) Numerical Study of Bearing Capacity of Ring and Circular Footing, Reinforced with Grid-Anchor System(inFarsi). **Modares Civil Engineering Journal** (mcej.modares.ac.ir) 14:127-136

• Papers in Conference Proceedings

1-**Behzadian A, Olyaee M, Komakpanah A, Mosallanezhad M,** "Numerical Analysis of Soil Nail Shearing Behavior during Pullout & the Effect of Overburden Pressure on Pullout Resistance Using Finite Element Method " **19th International Conference on Soil Mechanics and Geotechnical Engin eering, Seoul** (2017)

2-**Mosallanezhad M**, Sadat Taghavi S, "Pullout resistance of an innovative geogrid system embedded in a granular soil " **19th International Conference on Soil Mechanics and Geotechnical Engineering, Seoul** (2017)

3-**Mosallanezhad M**, Sadat Taghavi S, HATAF N "Pullout bearing failure mechanism of the anchored geogrid system " **6th EUROPEAN GEOSYNTHETICS CONGRESS** (2016)

4-**Mosallanezhad M**, Sadat Taghavi S "Analysis of pullout behavior of T-sec geogrid system " **6th EUROPEAN GEOSYNTHETICS CONGRESS** (2016)

5-**Mosallanezhad M**, HATAF N, Sadat Taghavi S "Evaluation of the Pullout Behavior of Polyester Anchored Geogrid System Embedded in a Compacted Granular Soil " **The 5th International Conference on Geotechnical Engineering and Soil Mechanics,** (2016)

6-**Mosallanezhad M**, Sadat Taghavi S "Study on Pullout Resistance of Anchored Geogrid System Under Monotonic and Cyclic Loads " **The 5th International Conference on Geotechnical Engineering and Soil Mechanics,** (2016)

7-**Mosallanezhad M**, Sadat Taghavi S "Large-scale Experimental Analysis of the Pullout Behavior of Bearing Strip System Embedded in a Compacted Sand " **The 5th International Conference on Geotechnical Engineering and Soil Mechanics,** (2016)

8-Hakimian S., **Mosallanezhad M.** "Numerical Analysis and comparison of Micropile's Pressure Bearing Capacity With the new Microbulb system on clay Soils " **Second international Conference on Advances in Engineering and Basic Sciences** (2015)

9-Ghotbi S., Mohammad O., Yasrebi S., **Mosallanezhad M**. "Dynamic Soil-Pile Behavior in Liquefiable Sand Overland with Soft Clay " **The 18th international conference on soil mechanics and geotechnical engineering** (2013)

10-Yoonesi S., **Mosallanezhad M.** "Bearing Capacity Investigation of Strip Footing on Two Layered Sandy Soils " **9th International Congress on Civil Engineering** (2012)

11-**Mosallanezhad M.**, Yazdani A. "Numerical Investigation of Bearing Capacity of Strip Footing Placed on Granular Soil, Reinforced with Grid-Anchor System " **9th International Congress on Civil Engineering** (2012)

12-Binesh S., **Mosallanezhad M.**, Rahnama A., Lashkari A. "Investigation of the Effect of Global Modeling of Soil and Structure on the Internal Forces of Excaviation Supporting System " **The 4th International Conference on Geotechnical Engineering and Soil Mechanics,** (2010)

13-**Mosallanezhad M.**, Hataf N. "Numerical Analysis of Granular Soils Bearing Capacity, Reinforced with Innovative Grid-Anchor System " **The 4th International Conference on Geotechnical Engineering and Soil Mechanics,** (2010)

• Inventions

1- Mosalanezhad M.,Razzazan S "*Polymeric U Shape Reinforcement Strip*"
2-Sadat Taghavi S.H., Mosalanezhad M., "*Anchored Geogrid* System of reinforcing"
3- Mosalanezhad M., Sadat Taghavi S.H., "*T Section Geogrid* System of reinforcing"
4- Mosalanezhad M., Sokoot Jahromi M.," Using *Strip Anchor* in order to Increasing Interaction between Soil and Ordinary Steel Strips in MSE walls"
5- Hataf N., Mosalanezhad M., " Using *Grid Anchors* in Soil Reinforcing"