PUBLICATIONS

SELECTED PUBLICATIONS (Partial List)

Author or co-author of more than 200 published research articles, with the many in top engineering journals. A partial list is shown below.

A1. Books

1. Li, L., Amini, F., Pan, Y, Yuan, S, and Cetin, B., (2021). *Hydraulics of Levee Overtopping*, CRC Press, Francis & Taylor, ISBN 978-0-367-27727-7.

A2. Refereed Chapters in Books

2. Qi, G. Z., Yang, J. C. S., and Amini, F. (1997). "Neural Network for Identification and Control of Civil Engineering Structures," Chapter 7 in a Book entitled Artificial Neural Network for Civil Engineers: Fundamentals and Applications, ASCE, Kartam, Flood, and Garrett, eds, ASCE, New York, N.Y. 92-123.

B. Refereed Journal Papers

1. Amini, F., Tawfiq, K. S., and Aggour, M. S. (1988). "Cohesionless Soil Behavior under Random Excitation Conditions," Journal of Geotechnical Engineering Div., ASCE, 114(8), 896-914.

2. Aggour, M. S., Taha, M. R., Tawfiq, K. S., and Amini, F. (1989). "Cohesive Soil Behavior under Random Excitation Conditions," Geotechnical Testing Journal, ASTM, June, Vol. 12, No. 2, 135-143.

3. Amini, F. (1990). "Dynamic Soil Properties Using Improved Transfer Function Methods," Journal of Soil Dynamics and Earthquake Engineering, Vol. 9, No. 6, November, 274-279.

4. Amini, F. (1993). "Effect of Confining Pressure on Dynamic Soil Properties Using Improved Transfer Function Estimators," Journal of Soil Dynamics and Earthquake Engineering, Vol. 12, 145-147.

5. Amini, F., (1995). "Time Effects on Dynamic Soil Properties under Random Excitation Conditions," Journal of Soil Dynamics and Earthquake Engineering, Vol. 11, No. 9. pp. 439-443.

6. Amini, F. and Smith, R. L. (1995). "Peak Flow Rates and Volumes Predictions Using Frequency Equivalent Hydrographs," Journal of Water Resources, Planning, and Management, ASCE, Vol. 121, No. 5, Sept., 359-364. (IF=1.53)

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10. Fahoum, K., Aggour, M. S., and Amini, F., (1996). "Dynamic Properties of Cohesive Soils Treated with Lime," Journal of Geotechnical Engineering, ASCE, Vol. 122, No. 5, May, 382-389.

11. Khalilian, A. and Amini, F. (1996). "A Case of a Residential Foundation Failure and Preservation by Pressure Grouting," Journal of Performance of Constructed Facilities, ASCE, Vol. 10, No. 4, November, 159-163.

12. Amini, F., Chen, H. M., Qi, G. Z., and Yang, J. C. S., (1996). "Neural Network-Based Active Control Experiments on Model Structure," Structural Control., Vol. 1, 294-299

13. Amini, F. (1996). Discussion of "System Identification and Its Application to Estimating Soil Properties by S. Glaser," Journal of Geotechnical Engineering, ASCE, Vol. 122, No. 10.

14. Amini, F. (1996). "Effect of Filter Thickness on the Efficiency of Sand Filter Water Quality Structure," Water Quality Research Journal of Canada, Vol. 31, No. 4, Nov., 801-807

15. Amini, F. and Khalilian, A. (1997). "Old Post Office Foundation Failure Investigation," Journal of Performance of Constructed Facilities, ASCE, Vol. 11, No. 1, February 13-17.

16. Chen, H. M., Qi, G. Z., Yang, J. C. S., and Amini, F. (1998). "Experimental Study of Active Control Using Neural Network," Journal of Structural Control, Vol. 5, No. 1. 27-43.

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34. Rao, X., Li, L., Amini, F., & Tang, H. (2012). "Numerical Study of Combined Wave and Surge Overtopping over RCC Strengthened Levee System Using Smoothed Particle Hydrodynamics Method." Ocean Engineering, 54:101-109.

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48. Zhao, Q., Li, L., Li, C., Huan, Z., and Amini, F. (2014). "A Full Contact Flexible Mold for Preparing Sample Based on Microbial Induced Calcite Precipitation Technology," ASTM Geotechnical Testing Journal, Vol. 37, No. 5, Sept., doi 1520/GTJ20130090. 917-921.

49. Li, L., Amini, F., & Wu, J. (2014). Turbulence and Seepage Effect on the Slope Stability of Earthen Levee Strengthened by High-Performance Turf Reinforcement Mat, Journal of Geotechnical and Geological Engineering, August, Volume 33, Issue 1 (2015), Page 1-13, DOI: 10.1007/s10706-014-9813-0.

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52. Zhao, Q., Li, L., Li, C., Huan, Z., & Amini, F. (2014). "Factors Affecting Improvement of Engineering Properties of MICP-treated Soil Catalyzed by Bacteria and Urease," Journal of Materials, ASCE, 10.1061/(ASCE)MT.1943-5533.0001013 (January 2, 2014).

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55. Yuan, S., Tang, H., Li, L., Amini, F., (2015). Combined Wave and Surge Overtopping Erosion Failure Model of HPTRM Levees: Accounting for Grass-Mat Strength, Ocean Engineering, 109, 256-269.

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59. Amini, F., and Li, L., 2015, Slope Stability of an Earthen Levee Strengthened by HPTRM under Turbulent Overtopping Conditions, International Journal of Environmental, Ecological, Geological, and Geophysical Engineering, Vol:9, No:5, 2015, 277-280.

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101. Nobahar M., Salunke R., Alzeghoul O. E., Khan S, and Amini F. (2023). "Mapping of Slope Failures on Highway Embankments using Electrical Resistivity Imaging (ERI), Unmanned Aerial Vehicle (UAV), and Finite Element Method (FEM) Numerical Modeling for Forensic Analysis," Transportation Geotechnics, Vol. 40, No. 100949, May 2023, https://doi.org/10.1016/j.trgeo.2023.100949

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C. Refereed Articles in Monographs, Books, and Proceedings (Partial List)

C1. ASCE Publications

108. Nobahar, M., Khan, M.S., Amini, F. (2023), "An Efficient Optimal Neural Network Model in Prediction of the Stability Factor of a Highway Slope Constructed on High Plastic Clay Soil in Mississippi," ASCE GeoCongress 2023, Los Angeles, CA.

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