Brief CV

FARSHAD AMINI, Ph.D., P.E.
Fellow, American Society of Civil Engineers (ASCE)
Professor & Founding Chair,
Department of Civil and Environmental Engineering
Jackson State University
P.O. Box 17068 Jackson, MS 39157-0168
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RESEARCH INTERESTS

- Soil Dynamics and Earthquake Engineering
- Innovative Levee Strengthening, Testing, and Modeling during Hurricanes; SEM and nano identifications of
- Pavement Rehabilitation
- Structural Dynamics and Earthquake Engineering
- Slope Stability under Hurricane Loading
- Protective Technology
- Forensic Studies (Soils and Structures)
- Geoenvironmental Engineering

EDUCATION

Ph.D. Civil Engineering, 1986, University of Maryland, College Park, MD
M.S. Civil Engineering, 1982, University of Kansas, Lawrence, KS
B.S. Civil Engineering, 1981, University of Kansas, Lawrence, KS

PROFESSIONAL SERVICE (Partial List)

- Member of Editorial Board, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE (1990-2003).
- Associate Editor, *International Journal of Civil & Environmental Engineering* (2011-Present)
- Member of Research Proposals Panel Review, Geohazard & Geoenvironmental Engineering Division, National Science Foundation, 2003 and 2006.
- Member of Research Proposals Panel Review, Major research Instrumentation (MRI), National Science Foundation, 2005.
- Member of Research Proposals Panel Review, Environmental Protection Agency, 2003.

- Member of Research Proposals Panel Review Board, Environmental Protection Agency (2001).
- Member of ISTED International Committee on Neural Networks (2001-Present)
- Organized Sessions for more than 20 National/International Conferences

ACADEMIC EXPERIENCE (Partial List)

9/00 - Present
Professor & Founding Chair (Full time)
(Assoc Prof. from 2000 to 2002, and Prof. since 2002)
Department of Civil & Environmental Engineering
Jackson State University
P. O. Box 17068
Jackson, MS 39217-0168

8/89 - 9/00
Assistant Professor, Associate Professor, and Coordinator of the Civil Engineering Program (performed administrative responsibilities) (Full time)
University of the District of Columbia
Washington, D.C. 20008

8/86 - 12/86
Visiting Assistant Professor
Mechanical Engineering Department
University of Maryland, College Park, MD 20742

8/85 - 6/86
Instructor
Mechanical Engineering Department
University of Maryland
College Park, MD 20742

ABET, ACCREDITATION AND ASSESSMENT EXPERIENCE (Partial List)

- Senior ABET Evaluator. Member of ABET Accreditation Visitation Team-Engineering Accreditation Commission (EAC) (2002-Present).
- Published the following article in the area of outcome assessment - Amini, F. & Rahman, S. (2008). "A Systematic and Structured Outcome Assessment Plan for a New Engineering Program," International Journal of Engineering Education, Vol. 24, No. 1, 189-199.
- Prepared and coordinated four prior ABET reports for the Civil Engineering Program Completed ABET EC 2000 evaluator training workshop (2000).
- Prepared SACS accreditation reports for the School of Engineering at Jackson State University.

FULL TIME INDUSTRIAL EXPERIENCE (Partial List)

10/86 - 8/89
Senior Geotechnical Engineer & Chief Engineer (Full time)
Soil Consultant, Inc., Chantily, VA 22021

6/83 - 6/85
Construction Engineer (Full time)
The Driggs Corporation (largest earthwork related construction company in the Washington D.C. area), 8700 Ashwood Dr., Capital Heights, MD 20743.

FORENSIC STUDIES EXPERIENCE (Partial List)

1991-2000
Have directed many forensic studies in soils, foundations, and structures area. Served as expert witness on some projects. A partial list is shown below.

1. Holloman High-Speed Sled Track, NM. The longest (more than 10 miles long) high speed sled track in the world. The civil engineering problems included settlement of the concrete girder, rise of the girder in other locations, and the deterioration of the girder.
2. 1220 13th Street, N.W., Washington, DC. 23,000 ft2 two story office building. The structural failure of the various elements including concrete beams, girders, and roofs possibly due to snow overload were analyzed. (Structural Failure, Expert Witness)
3. Old Post Office Foundation Failure Investigation, VA
4. Aston Park Apartments Pavement Failure Investigation, VA
5. Residential Building Foundation Failure Investigation, VA (Expert Witness)

Sample Forensic Publications

1. 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.
2. 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.

CIVIL ENGINEERING COURSES TAUGHT

- Engineering Mechanics I
- Engineering Mechanics II
- Principles of Geotechnical Engineering
- Principles of Geotechnical Engineering Lab.
- Foundation Engineering
- Applied Geotechnical Eng. Design

INVITED PRESENTATIONS (Partial List)

Has made more than 200 invited presentations as keynote speaker, convention speaker, and conferences and university speakers worldwide. A partial list is shown below.

- Second International Conference in Concrete Design (Keynote Speaker) (1992)
- ASCE Convention ("Future of Undergraduate Engineering Education") (2005)
- Indian institute of Technology, New Delhi, Delhi (2010) (Invited Speaker)
- "B+30 Model Law", Mississippi Engineering Society (2009) (Invited Speaker)
- Dams Sector R&D Workshop, (2012). Vicksburg, MS (Invited) "Innovative Levee Strengthening under Full Scale Overtopping Conditions"
- Invited Speakers at Four Universities in China including Tongji University, Hohai University, University of Shanghai for Science & Technology, Donghua University (2013)

FUNDED RESEARCH GRANTS (PARTIAL LIST)

Principal investigator or co-principal investigator of more than 50 major research grants from various funding agencies such as NSF, DHS, ARO, Navy, AFOSR, USGS, MDOT, ERDC, CARUP, D.C. Government, and other agencies. This information is summarized below.

Funding Agency	**No. of Grants**	**Remarks**
NSF	7	4 Research Grants; 2 Research Equipment; one Research/Education
Army Research Office	4	3 Research Grants; one Research/Education Equipment
Air Force Office of Scientific Research	1	Research
ERDC	9	8 Research, one Education
Navy	1	Research
DHS	2	Research
DOD	2	1 Research, one education
U.S.G.S.	5	Research
MDOT	11	7 Research, one Equipment, 3 Education
D.C. Government	1	Research
Army Corps. of Engineers	2	Research
CARUP	2	Research
BCD	1	Research
UDC	2	Research
U.S. DOT	4	Two Research, two Education
NASA	1	Research
Total	**55**	

NSF Grants

Title: MRI: Acquisition of a Multi-Beam SEM/FIB for Multidisciplinary Materials Study and Training
PI: Li, Lin, Co-PI: F. Amini, W. Walters, A. Hamme
Founding Agency: National Science Foundation,
Amount: $559,660.00 (FUNDED)
Supported by: National Science Foundation,
Dates: October 2015-September 2018

Title: CSEM Enhancement Program
PI: F. Amini; Co-PI: Loretta Moore
Total Amount: $ 343,700.00 (FUNDED)
Supported by: National Science Foundation
Dates: 2001-2007

Title: ESEM for Soil Liquefaction Research
PI: F. Amini
Total Amount: $ 192,900.00 (FUNDED)
Supported by: National Science Foundation
Dates: 2002-2004

Title: Behavior of Stratified Sand-Gravel Composites under Seismic Liquefaction Conditions
PI: F. Amini
Total Amount: $ 157,723.00 (FUNDED)
Supported by: National Science Foundation (NSF)
Dates: 1996 to 1999

Title: Research Equipment for Soil Dynamics Testing and Study of the Effect of Time on Dynamic Soil Properties. This grant provided both salary (about 60K) and equipment funds (60K) (Indirect cost: 22K)
PI: F. Amini
Total Amount: $ 120,000.00 (FUNDED)
Supported by: National Science Foundation (NSF)
Dates: 1992 to 1995

Title: Active Control of Structures Instrumented with Optical Fiber Sensors under Earthquake Loading. (Simulation Studies as well as Experiments on Shake Table, Neural Networks Application in Identification and Control)
PI: J. C. S. Yang, G. Z. Qi, F. Amini, and J. Sirkus
Total Amount: $ 229,425.00 (FUNDED)
Supported by: National Science Foundation (NSF)
Dates: 1992-1995

Title: Identification and Active Control of Structures under Earthquake Loading (Neural Networks Application in Identification and Control)

PI: J. C. S. Yang, G. Z. Qi, and F. Amini
Total Amount: $ 50,000.00 (FUNDED)
Supported by: National Science Foundation (NSF)
Dates: 1991-1992

Other Grants

Title: Numerical Water Quality and Contaminant Modeling
PI: F. Amini
Total Amount: $ 280,000.00 (FUNDED)
Supported by: DOD
Dates: October 1, 2014- November 30, 2016

Title: Innovative Levee Strengthening and Testing under Full-Scale Overtopping Conditions
PI: F. Amini; Co-PI: Dr. Lin Li
Total Amount: $ 1,000,000.00.00 (FUNDED)
Supported by: Department of Homeland Security (DHS)
Dates: 2009-2012

Title: High Performance Turf Reinforcement Mat Strengthened Levee under Combined wave and Storm Surge Turbulent Overtopping Conditions
PI: F. Amini; Co-PI: Dr. Lin Li
Total Amount: $ 450,000.00 (FUNDED)
Supported by: Department of Homeland Security (DHS)
Dates: 2011-2012

Title: Summer Transportation Institute
PI: L. Li; Co-PI: F. Amini
Total Amount: $ 58,000.00 (FUNDED)
Supported by: Mississippi Department of Transportation (MDOT)
Dates: 2015

Title: Long-Term Field Studies and Monitoring of Paving Fabric Systems to Reduce Reflective Cracking
PI: F. Amini
Total Amount: $ 218,000.00 (FUNDED)
Supported by: Mississippi Department of Transportation (MDOT)
Dates: October 1, 2005- December 30, 2015

Title: Summer Transportation Institute
PI: L. Li; Co-PI: F. Amini
Total Amount: $ 58,000.00 (FUNDED)
Supported by: Mississippi Department of Transportation (MDOT)
Dates: 2014

Title: Numerical Water Quality and Contaminant Modeling (L-9)

PI: F. Amini
Total Amount: $ 63,000.00 (FUNDED)
Supported by: DOD
Dates: 2013-2014

Title: Hyper-Velocity Impact Resistant and Self Healing Nano Materials in Space Applications
PI: F. Amini (Peter Sukanek; Al-Ostaz, & F. Amini, et al.)
Total Amount: $ 20,000.00 (FUNDED)
Supported by: NASA
Dates: 2013-2016

Title: Numerical Water Quality and Contaminant Modeling
PI: F. Amini
Total Amount: $ 120,000.00 (FUNDED)
Supported by: DOD
Dates: 2012-2014

Title: Summer Transportation Institute
PI: L. Li; Co-PI: F. Amini
Total Amount: $ 58,000.00 (FUNDED)
Supported by: Mississippi Department of Transportation (MDOT)
Dates: 2013

Title: Assessment of Pavement Infrastructure
PI: F. Wang; Co-PI: F. Amini; L. Li
Total Amount: $ 712,000.00 (FUNDED)
Supported by: US Department of Transportation
Dates: 2010-2012

Title: Summer Internship Program
PI: Y. Li, Co-PI: PI: F. Amini
Total Amount: $ 2,000,000.00 (FUNDED)
Supported by: DOD/ERDC
Dates: 2012-2017

Title: Cost-Effectiveness Study of the Pavement Warranty Program in Mississippi
PI: Qi, Y., Co-PI: F. Wang & F. Amini
Total Amount: $ 130,000.00 (FUNDED)
Supported by: Mississippi Department of Transportation (MDOT)
Dates: 2011-2013

Title: Summer Transportation Institute
PI: L. Li; Co-PI: F. Amini
Total Amount: $ 58,000.00 (FUNDED)
Supported by: Mississippi Department of Transportation (MDOT)
Dates: 2013

Title: Evaluation of MDOT's Distress Thresholds for Maintained Pavement Projects
PI: F. Wang; Co-PI: F. Amini
Total Amount: $ 120,000.00 (FUNDED)
Supported by: Mississippi Department of Transportation (MDOT)
Dates: 2009-2011

Title: Comparative Slope Stability Analysis for Hurricane Protection Systems Using the Method of Planes and the Method of Slices
PI: F. Amini
Total Amount: $ 119,119.00 (FUNDED)
Supported by: Burns Cooley Dennis Inc.
Dates: 2007-2008

Title: Lake Chicot Display Center
PI: F. Amini; Co-PI: L. Li
Total Amount: $ 12,425.00 (FUNDED)
Supported by: U.S. Army Corps. of Engineers – Vicksburg District
Dates: 2007-2008

Title: Protective Technology Research
Principal Investigator: F. Amini
Supported by: U.S. Army Engineering, Research, and Development Center (ERDC)
Total Amount: $463,000.00 (FUNDED)
Dates: 2003-2006

Title: Scientific Visualization of Soil Liquefaction for the Design and Maintenance of Seismic Dams
PI: F. Amini; Co-PI: S. Rahman
Supported by: Engineering, Research, and Development Center (ERDC)
Total Amount: $ 39,700.00 (FUNDED)
Dates: 2003-2004

Title: Research on Potential Applications of the Static and Dynamic Cone Penetrometers in MDOT Pavement Design and Construction
PI: F. Amini
Total Amount: $ 35,700.00 (FUNDED)
Supported by: Mississippi Department of Transportation (MDOT)
Dates: 2002-2003

Title: Research on Applications of Paving Fabrics to Reduce Reflective Cracking
PI: F. Amini
Total Amount: $ 37,000.00 (FUNDED)
Supported by: Mississippi Department of Transportation (MDOT)
Dates: 2003-2004

Title: Acquisition of Superpave for CE Program enhancement at JSU
PI: F. Amini
Total Amount: $ 125,000.00 (FUNDED)
Supported by: Mississippi Department of Transportation (MDOT)
Dates: 2002-2003

Title: Computer-Based Unix Laboratory
PI: M. Manzoul, F. Amini, and S. White
Total Amount: $ 138,000.00 (FUNDED)
Supported by: Army Research Office (ARO)
Dates: 2002-2003

Title: Liquefaction at Depth
PI: F. Amini
Supported by: Stennis Space Center, DOD-Navy
Total Amount: $100,000.00 (FUNDED)
Dates: 2001-2002

Title: Microstructure Features of Particulate Materials Using ESEM
PI: F. Amini
Supported by: Army Research Office (ARO)
Total Amount: $237,000.00 (FUNDED)
Dates: 1998 to 2000

Title: Microstructure Features and Dynamic Macro-Behavior of Particulate Materials
PI: F. Amini
Supported by: Air Force Office of Scientific Research
Total Amount: $ 49,570.00 (FUNDED)
Date: 1997

Title: Behavior of Stratified Undrained Contractive Silty Sands Under Seismic Liquefaction Conditions
PI: F. Amini
Total Amount: $ 120,000.00 (FUNDED)
Supported by: Army Research Office (ARO)
Dates: 1993 to 1995

Title: Liquefaction of Layered Silty Sands
PI: F. Amini
Total Amount: $ 28,698.00 (FUNDED)
Supported by: Army Research Office; Dates: 1994-1995

Title: Performance Tests for Model Sand Filters
PI: F. Amini and F. F. M. Chang
Total Amount: $ 10,000.00 (FUNDED)
Supported by: D.C. Government

Date: 1993

Title: An Experimental Study of the Optimal Thickness of Sand Layer in a Sand Filter Water Quality Structure
PI: F. Amini and F. F. M. Chang
Total Amount: $ 31,733.00 (FUNDED)
Supported by: U.S. Geological Survey, Dept. of Interior
Dates: 1993-1994

Title: Definition of Groundwater Flow in the Water Table Aquifer of the Downtown Washington D.C. Area
PI: F. Amini & G. Matheson
Total Amount: $ 42,185.00 (FUNDED)
Supported by: U.S. Geological Survey, Dept. of Interior
Dates: 1994-1995

Title: Definition of Groundwater Flow and Water Quality in the Water Table Aquifer of the Southern Anacostia River Basin
PI: F. Amini & G. Matheson
Total Amount: $ 20,526.00 (FUNDED)
Supported by: U.S. Geological Survey, Dept. of Interior
Dates: 1993-1994

Title: Definition of Groundwater Flow and Water Quality in the Water Table Aquifer of the Southern Anacostia River Basin
PI: F. Amini;
Total Amount: $ 20,526.00 (FUNDED)
Supported by: U.S. Geological Survey, Dept. of Interior;
Dates: 1993-1994

Title: A New Procedure for Estimation of Soil Parameters for Use in Slope Stability Analysis in Northern Virginia
PI: F. Amini
Total Amount: $ 5,120.00 (FUNDED)
Supported by: Center for Applied Research and Urban Policy (CARUP),
Date: 1990

Title: Dynamic Soil Behavior under Impulse Loading Conditions Considering Nonlinear Effects
PI: F. Amini
Total Amount: $ 4,495.00 (FUNDED)
Supported by: Academic Affairs, Peer Reviewed Faculty Senate Research, UDC, Date: 1991

Title: Dynamic Soil Behavior under Impulse Loading Conditions
PI: F. Amini
Total Amount: $ 5,000.00 (FUNDED)
Supported by: Academic Affairs, Peer Reviewed Faculty Senate Research, UDC

Date: 1990

Title: Transportation Research and Education Enhancement Program through Graduate Students Support at JSU
PI: F. Amini
Total Amount: $ 16,348.00 (FUNDED)
Supported by: FTA
Dates: 2007-2008

Title: Enhancement of JSU Transportation Engineering through Financial Assistance to students
PI: F. Amini
Total Amount: $ 25,800.00 (FUNDED)
Supported by: FTA
Dates: 2007-2008

Title: Enhanced K-12 Outreach for Metropolitan Transportation Education
PI: L. Li; Co-PI: F. Amini
Total Amount: $ 10,159.00 (FUNDED)
Supported by: FTA
Dates: 2007-2008

Title: Summer Transportation Institute
PI: I. Simone; Co-PI: F. Wang & F. Amini
Total Amount: $ 10,000.00 (FUNDED)
Supported by: Mississippi Department of Transportation (MDOT)
Dates: Summer 2011

SELECTED PUBLICATIONS (Partial List)

Author or co-author of more than 150 published research article, with many in top engineering journals. A partial list is shown below.

A. Refereed Chapters in Books

1. 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

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. Qi, G. Z., Chen, H. M. Tsai, K. H, Yang, J. C. S., and Amini, F. (1995). "Neural Networks for Structure Control," Journal of Computing in Civil Engineering, ASCE, Vol. 9, No. 2, April, 168-176.

9. Qi, G. Z., Chen, H. M. Tsai, K. H., Yang, J. C. S., and Amini, F. (1995). "Neural Network for Structural Dynamic Model Identification," Journal of Engineering Mechanics, ASCE, Vol. 121, No. 12, December. 1377-1381.

10. Amini, F., (1995). "Time Effects on Dynamic Soil Properties Under Random Excitation Conditions," Journal of Soil Dynamics and Earthquake Engineering, Vol. 14, No. 6, 439-443.

11. 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.

12. 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.

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.

17. Amini, F. and Truong, H. V. (1998). "Effect of Filter Media Particle Size Distribution on Filtration Efficiency," Water Quality Research Journal of Canada, Vol. 33, No. 4, 589-594.

18. Amini, F. and Qi, G. Z. (2000). "Liquefaction Testing of Layered Silty Sands," Journal of Geotechnical and Geoenvironmental Engineering, ASCE, Vol. 126, No. 3, 208-217.

19. Amini, F. and Sama, K. M. (1999)."Behavior of Stratified Sand-Silt-Gravel Mixtures under Seismic Liquefaction Conditions," Journal of Soil Dynamics and Earthquake Engineering, Vol. 18, No. 6, 445-455.

20. Amini, F. (1999). "Effect of Time on Dynamic Properties of Cohesive Soils Using Improved Transfer Function Estimators," Journal of Soil Dynamics and Earthquake Engineering, Vol. 18, No. 6, 457-461.

21. Amini, F. (2002). Closure of "Liquefaction Testing of Layered Silty Sands," Discussion by M. Hussein, Journal of Geotechnical and Geoenvironmental Engineering, ASCE, Vol. 128, No. 1, in press.

22. Amini, F., Biddlecome, Rahman, S., and Sharpe, M. (2004). "Liquefaction at Depth Visualization," Environmental Modeling and Simulation, CAT Press, Vol. 2, 151-155.

23. Amini, F. & Chakravarty, A. (2004). "Liquefaction Testing of Stratified Sand-Gravel Composites," Geotechnical Testing Journal, ASTM, January, pp. 36-46.

24. Amini, F. & Rahman, S. (2008). **"**A Systematic and Structured Outcome Assessment Plan for a New Engineering Program," International Journal of Engineering Education, Vol. 24, No. 1, 189-199.

25. Amini, F. (2008). Discussion of "Sample Preparation of Silts for Liquefaction," by A. S. Bradshaw and C. D. Baxter, Geotechnical Testing Journal, ASTM, Vol. 3, No. 6.

26. Chatterjee, J., Amini, F., and Cooley, L. A. (2009). A Comparative Slope Stability Analysis of New Orleans I-Wall Subjected to Hurricane Loading," International Journal of Geotechnical Engineering, Vol. 3, No. 3, 459-467.

27. Chatterjee, J., and Amini, F. (2011). "Slope Stability Analysis of T-Wall Subjected to Hurricanes Loading," International Journal of Geotechnical Engineering, Vol. 5, No. 1. 103-112.

28. Shin, H., Chiarito, V., and Amini, F. (2011). "Measurements of Strain Relief in Concrete Cubes with Slot Cutting," Journal of Applied Sciences Research, Vol. 7, No. 5. .215 1-2163.

29. Li, L., Peng, B., Santos, F., Li, Y., and Amini, F. (2011). "Groundwater Impacts from Leaching of Coal Combustion Products in Roadways Embankment Construction," Journal of ASTM International, Vol. 8, No. 8, 1-12.

30. Chatterjee, J., and Amini, F. (2011). "A Comparative Assessment of Slope Stability of New Orleans I-Wall with gap between the Wall and Layered Cohesive Backfill," Geomechanics and Geoengineering, An International Journal Vol. 6, No. 3, pp. 217-225.

31. Xu, G., Chatterjee, J., and Amini, F. (2011). "A Comparative Slope Stability Analysis of New Orleans Levee Subjected to Hurricane Loading" Electronic Journal of Geotechnical Engineering, Vol. 16/C, 325-336.

32. Amini, F., Xu, Y., and Li, L. (2013). "Two-Dimensional Slope Stability Analysis of Earthen Levee Strengthened by Articulated Concrete Block System under Hurricane Overtopping Flow Conditions." International Journal of Geotechnical Engineering, 7(2). 178-186

33. Amini, F., Turnquest, B., and Ahlrich, R. (2012). "Construction Monitoring of Paving Fabrics Systems to Reduce Reflective Cracking." International Journal of Emerging Technology and Advanced Engineering, 2(6): 413-420.

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." Journal of Ocean Eng., 54:101-109.

35. Xu, Y., Li, L., and Amini, F. (2012). "Slope Stability Analysis of Earthen Levee Strengthened by High Performance Turf Reinforcement Mat under Hurricane Overtopping Flow Conditions." Journal of Geotechnical and Geological Engineering, 30:893-905.

36. Pan, Y., Li, L., Amini, F., and Kuang, C. P. (2013). "Comparison of the Hydraulic Performances of Three Levee-Strengthening Systems and Hydraulic Equivalency Analysis between Steady and Intermittent Overtopping." Journal of Waterways, Coastal and Ocean Engineering, ASCE, 139(7), 256-266.

37. Pan, Y., Li, L., Amini, F., and Kuang, C. P. (2012). "Full scale HPTRM Strengthened Levee Testing under Combined Wave and Surge Overtopping Conditions: Overtopping Hydraulics, Shear Stress and Erosion Analysis."Journal of Coastal Research, DOI: 10.2112/JCOASTRES-D-12-00010.1., 29(10, 182-200.

38. Li, L., Pan, Y., Amini, F., and Kuang, C. P. (2012). "Full Scale Laboratory Study of Combined Wave and Surge Overtopping of a Levee with RCC Strengthening System." Ocean Engineering, 54(1): 70-86.

39. Li, L., Amini, F., Rao, X and Tang, H. (2012). "SPH Modeling of Surge Overflow over RCC Strengthened Levee."International Journal of Oceans Systems Engineering, 2(4): 200-208.

40. Xu, Y., Li, L., and Amini, F. (2012). "Slope stability Analysis of Earthen Levee Strengthened by Roller-Compacted Concrete under Hurricane Overtopping Flow Conditions." Journal of Geomechanics and Geoengineering, DOI: 10.1080/17486025. 2012.695400: 1-10

41. Rao, X., Li, L., Amini, F., and Tang, H. (2012). "SPH Modeling of Combined Wave and Surge Overtopping and Hydraulic Erosion of ACB Strengthened Levee System." Journal of Coastal Research, 28(6):1500-1511.

42. Yuan, S., Li, L., Amini, F. and Tang, H. (2013). "Shear Stress and Erosion Simulation Over a HPTRM Strengthened Levee under Turbulent Flow Condition." Journal of Coastal Research, 30 (1), January, 142-157.

43. Li, L., Amini, F., Rao, X., and Tang, H., (2013). "SPH Study of Surge Overflow and Hydraulic Erosion of Earthen Levee Armored by Articulated Concrete Blocks," Current Development in Oceanography, 6(2): 61-80.

44. Chatterjee, J. and Amini, F. (2013). "A Comparative Slope Stability Analysis of Sheet Pile Supported I-wall in New Orleans, Louisiana with Sheet Pile Penetrating into Sand Layer." Journal of Geomechanics and Geoengineering. DOI: 10.1080/17486025. 2012.726747: 1-7.

45. Li, L., Amini, F., Pan, Kuang, C. P., and Briaud, J. (2014). "Erosion Resistance of HPTRM Strengthened Levee from Combined Wave and Surge Overtopping." Journal of Geotechnical and Geological Engineering, Vol. 32, No. 4, 847-957.

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