



Safety
State of Good Repair
Economic Competitiveness
Livable Communities
Environmental Sustainability

2006 Transportation Publications (Journals, Books, Book Chapters)

Books

1.	Atiquzzaman, M. and Balandin, S. (Eds.) <i>Next-Generation Communication and Sensor Networks</i> , Bellingham, WA: SPIE.	Safety
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Journals

1.	Brown, N. and Lai, F. "Measurement of Permeability and Slip Coefficient of Porous Tubes," <i>Journal of Fluids Engineering</i> , Vol. 128, pp. 987-992.	State of Good Repair
2.	Cerato, A. and Lutenegger, A. "Bearing Capacity of Square and Circular Footings on a Finite Layer of Granular Soil Underlain by a Rigid Base," <i>Journal of Geotechnical and Geoenvironmental Engineering, ASCE</i> , Vol. 132, No. 11, pp. 1496-1501.	State of Good Repair
3.	Cerato, A. and Lutenegger, A. "Specimen Size and Scale Effects of Direct Shear Box Tests of Sands," <i>Geotechnical Testing Journal, ASTM</i> , Vol. 29, No. 6, pp. 507-516.	State of Good Repair
4.	Commuri, S. and Wafta, M. "Coverage Strategies in 3D Wireless Sensor Networks," <i>International Journal of Distributed Wireless Sensor Networks</i> , Vol. 2, No. 4, pp. 333-353.	Safety
5.	Edke, M. and Chang, K. "Shape Optimization of Heavy Load Carrying Components for Structural Performance and Manufacturing Cost," <i>Journal of Multidisciplinary Structural Optimization</i> , Vol. 31, No. 5, p. 344-354.	State of Good Repair

6.	Hatami, K. and Bathurst, R. "A Numerical model for Reinforced Soil Segmental Walls under Surcharge Loading," <i>Journal of Geotechnical and Geoenvironmental Engineering, ASCE</i> , Vol. 132, No. 6, pp. 673-684.	State of Good Repair
7.	Hatami, K. and Raymond, G. "Influence of Soil Strength on the Optimal Embedment Depth of a Geosynthetic Reinforcement Layer in Granular Reinforced Foundations," <i>Transportation Research Record, Journal of the Transportation Research Board, National Research Council</i> , 1975, pp. 155-162.	State of Good Repair
8.	Kabir, Md.; Saha, M. and Jeelani, S. "Tensile and Fracture Behavior of Polymer Foams," <i>Materials Science and Engineering A</i> , Vol. 429, pp. 225-235.	State of Good Repair
9.	Khoury, N. and Zaman, M. "Durability Effect on Flexural Behavior of Cementitiously Stabilized Lime Aggregate," <i>Journal of Testing and Evaluation, ASTM</i> , Vol. 34, No. 3, pp. 167-175.	State of Good Repair
10.	Khoury, N.; Zaman, M. and Laguros, J. "Semi-Quantification of Cementing Products using X-Ray Diffraction Technique in Stabilized Aggregate," <i>Journal of X-Ray Science and Technology</i> , Vol. 14, No. 1, pp. 39-54.	State of Good Repair, Environmental Sustainability
11.	Papavassiliou, D.; Voronov, R. and Lee, L. "Boundary Slip and Wetting Properties of Interfaces: Correlation of the Contact Angle with the Slip Length," <i>Journal of Chemical Physics</i> , Vol. 124, Article No. 204701.	State of Good Repair
12.	Pei, J. and Smyth, A. "A New Approach to Designing Multilayer Feedforward Neural Network Architecture for Modeling Nonlinear Restoring Forces: Part I - Formulation," <i>ASCE Journal of Engineering Mechanics</i> , Vol. 132, No. 12, pp. 1290-1300.	State of Good Repair, Safety
13.	Pei, J. and Smyth, A. "A New Approach to Designing Multilayer Feedforward Neural Network Architecture for Modeling Nonlinear Restoring Forces: Part II - Applications," <i>ASCE Journal of Engineering Mechanics</i> , Vol. 132, No. 12, pp. 1310-1312.	State of Good Repair, Safety
14.	Tarefder, R.; Zaman, M.; Sisson, R. and Ting, C.-F. "Field and Laboratory Properties of Lime-Trated Cold In-Place Recycled Asphalt Pavements," <i>Journal of Testing and Evaluation, ASTM</i> , Vol. 34, No. 1, pp. 31-41.	State of Good Repair
15.	Wafra, M. and Commuri, S. "An Energy Efficient Approach to Dynamic Coverage in Wireless Sensor Networks," <i>Journal of Networks</i> , Vol. 1, No. 4, pp. 10-20.	Safety
16.	Wei, C. and Muraleetharan, K. "Acoustical Characterization of Fluid-Saturated Porous Media with Local Heterogeneities: Theory and Application," <i>International Journal of Solids and Structures</i> , Vol. 43, No. 5, pp. 982-1008.	State of Good Repair

17.	Yang, Y.; Muraleetharan, K. and Yu, H. "A Middle Surface Concept (MSC) Model for Saturated Sands in General Stress Space," <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , Vol. 30, pp. 389-412.	State of Good Repair
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2007 Transportation Publications

Books

1.	Gramoll, K.C. <i>Multimedia Engineering Mechanics</i> (eBook), published at www.eCourses.ou.edu .	State of Good Repair
2.	Gramoll, K.C. <i>Multimedia Engineering Statics</i> , (eBook – revision), published at www.eCourses.ou.edu .	State of Good Repair

Book Chapters

1.	Watson, D. and Ramseyer, C.C. "Section D 6.3.2 Alternate Lateral and Stability Bracing for Purlin Roof Systems, AISI Standard," <i>North American Specification for the Design of Cold Formed Steel Structural Members</i> , 2007 Edition.	State of Good Repair
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Journals

1.	Cerato, A.B. and Lutenegeger, A.J. "Scale Effects of Shallow Foundation Bearing Capacity on Granular Material," <i>ASCE Journal of Geotechnical and Geoenvironmental Engineering (JGGE)</i> , Vol. 133, No. 10, pp. 1192-1202.	State of Good Repair
2.	Chen, L.; Miller, G.A. and Kibbey, T.C.G. "A Parallel Automated System for Rapid Measurement of Hysteretic Capillary Pressure-Saturation Relationships in Unconsolidated Porous Media," <i>Geotechnical Testing Journal, ASTM</i> , Vol. 30, No. 6, pp. 474-483.	State of Good Repair

3.	Chun, S.C.; Lee, S.H.; Kang, T.H.K.; Oh, B. and Wallace, J.W. "Mechanical Anchorage in Exterior Beam-column Joints Subjected to Cyclic Loading," <i>ACI Structural Journal</i> , Vol. 104, No. 1, pp. 102-112.	State of Good Repair
4.	Gurocak, Z.; Solanki, P. and Zaman, M.M. "Empirical and Numerical Analyzes of Support Requirements for a Diversion Tunnel at the Boztepe Dam Site, Eastern Turkey," <i>Engineering Geology</i> , Vol. 91, pp. 194-208.	State of Good Repair
5.	Hong, Y. and Adler, R.F. "Towards an Early Warning System for Global Landslides Triggered by Rainfall and Earthquakes," <i>International Journal of Remote Sensing</i> , Vol. 28, No. 16, pp. 3713-3719.	State of Good Repair
6.	Hong, Y.; Adler, R.F. and Huffman, G.J. "Satellite Remote Sensing for Landslide Monitoring on a Global Basis," <i>AGU EOS</i> , Vol. 88, No. 37, pp. 357-358.	State of Good Repair
7.	Hong, Y.; Adler, R.F. and Verdin, J. "Using 21 st Century Remote Sensing Technology for Natural Disaster Prediction and Mitigation: Emerging Frontier and Challenges," <i>Journal of Natural Hazards</i> , Vol. 43, No. 2.	Environmental Sustainability
8.	Hong, Y.; Adler, R.F.; Negri, A. and Huffman, G.J. "Flood and Landslide Applications of Near Real-time Satellite Rainfall Estimation," <i>Journal of Natural Hazards</i> , Vol. 43, No. 2, pp. 285-294.	State of Good Repair
9.	Jones, J. and Atiquzzaman, M. "Transport Protocols for Wireless Sensor Networks: State-of-the-art and Future Directions," <i>International Journal of Distributed Sensor Networks</i> , Vol. 3, No. 1, pp. 119-133.	Safety, State of Good Repair
10.	Kabir, Md. E.; Saha, M.C. and Jeelani, S. "Effect of Ultrasound Sonication in Carbon Nanofiber/Polyurethane Foam Composites," <i>Materials Science and Engineering A</i> , Vol. 459, No. 1-2, pp. 111-116.	State of Good Repair
11.	Kapoor, C.; Graves-Abe, T.L. and Pei, J.S. "An FPGA-based Smart Wireless Sensing Unit for Structural Health Monitoring," <i>Smart Structures and Systems</i> , Techno Press, Vol. 3, No. 1, pp. 69-88.	State of Good Repair
12.	Karabuk, S. "Modeling and Optimizing Transportation Decisions in a Manufacturing Supply Chain," <i>Transportation Research Part E: Logistics and Transportation Review</i> , Vol. 43E, No. 3, pp. 321-337.	Economic Competiveness
13.	Khoury, N.N. and Zaman, M.M. "Environmental Effects on Durability of Aggregates Stabilized with Cementitious Materials," <i>ASCE Journal of Materials in Civil Engineering</i> , Vol. 19, No. 1, pp. 1-8.	State of Good Repair

14.	Khoury, N.N.; Teredesai, R.V.; Zaman, M.M. and Khoury, C.N. "Laboratory and Field Assessment of Pile Run Chat from the Tar Creek Superfund Site Stabilized with Class C Fly Ash and Cement Kiln Dust," <i>International Journal of Geotechnical Engineering</i> , Vol. 1, No. 1, pp. 71-80.	Environmental Sustainability
15.	Miller, G.A. and Hamid, T.B. "Interface Direct Shear Testing of Unsaturated Soil," <i>Geotechnical Testing Journal, ASTM</i> , Vol. 30, No. 3, pp. 182-191.	State of Good Repair
16.	Murphy, T.J.; Shehab, R.L.; Reed-Rhoads, T.; Foor, C.E.; Harris, B.J.; Trytten, D.A.; Walden, S.E.; Besterfield-Sacre, M.; Hallbeck, M.S. and Moor, W.C. "Achieving Gender Parity at the Undergraduate Level: A Study of Success," <i>Journal of Engineering Education</i> , Vol. 96, No. 3, pp. 242-252.	Livable Communities
17.	O'Rear, E.; Wasiuddin, N.M.; Howell, D.C.; Fogle, C.M. and Zaman, M.M. "Effect of Anti-strip Additives on Surface Free Energy Characteristics Asphalt Binders for Moisture-induced Damage Potential," <i>Journal of Testing and Evaluation</i> , Vol. 35, No. 1, pp. 1-9.	State of Good Repair
18.	O'Rear, E.A.; Wasiuddin, N.M.; Fogle, C.M. and Zaman, M.M. "Characterization of Thermal Degradation of Liquid Anti-strip Additives in Asphalt Binders due to RTFO and PAV-aging," <i>Journal of Testing and Evaluation</i> , Vol. 35, No. 4.	State of Good Repair
19.	Pei, J.S.; Ivey, R.A.; Lin, H.; Landrum, A.R.; Sandburg, C.J. Ferzli.; King, T.; Zaman, M.M.; Refai, H.H. and Mai, E.C. "An Experimental Investigation of Applying Mica2 Motes in Pavement Condition Monitoring," <i>Journal of Intelligent Material Systems and Structures</i> .	State of Good Repair
20.	Tadigotla, V. and Commuri, S. "Design and Implementation of Reconfigurable Mobile Sensor Systems," <i>WSEAS Transactions on Systems</i> , Vol. 6, No. 2, pp. 400-408.	Safety
21.	Wasiuddin, N.M.; Fogle, C M.; Zaman, M.M. and O'Rear, E. "Characterization of Thermal Degradation of Liquid Amine Anti-strip Additives in Asphalt Binders Due to RTFO and PAV-aging," <i>ASTM Journal of Testing and Evaluation</i> , Vol. 35, No. 4, pp. 387-394.	State of Good Repair
22.	Wasiuddin, N.M.; Fogle, C.M.; Zaman, M.M. and O'Rear, E. "Effect of Anti-Strip Additives on Surface Free Energy Characteristics of Asphalt Binders for Moisture-Induced Damage Potential," <i>ASTM Journal of Testing and Evaluation</i> , Vol. 35, No. 11, pp. 36-44.	State of Good Repair

23.	Wasiuddin, N.M.; Selvamohan, S.; Zaman, M.M. and Guegan, M. L. "A Comparative Laboratory Study of Sasobit® and Aspha-Min® in Warm Mix Asphalt," <i>Transportation Research Record, Journal of the Transportation Research Board</i> , Vol. 1998, pp. 82-88.	State of Good Repair
24.	Wasiuddin, N.M.; Zaman, M.M.; Nairn, R.W. and Kolothody, N. "Characteristics of Chat-asphalt for Road Base Application," <i>Journal of Solid Waste Technology and Management</i> , Vol. 32, No. 3, pp. 125-137.	State of Good Repair
25.	Wei, C.-F. and Muraleetharan, K.K. "Linear Viscoelastic Behavior of Porous Media with Non-uniform Saturation," <i>International Journal of Engineering Science</i> , Vol. 45, No. 2, pp. 698-715.	State of Good Repair

2008 Transportation Publications

Book Chapters

1.	Landers, T.; Mendoza, A. and English, J. "Logistic Performance Measurement," in G. Taylor (Ed.) <i>CRC Logistics Engineering Handbook</i> , Boca Raton, FL: CRC Press.	Economic competitiveness
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Journals

1.	Beyabanaki, A.R.; Grayeli, R. and Hatami, K. "Three-Dimensional Discontinuous Deformation Analysis (3D-DDA) using a New Contact Resolution Algorithm," <i>Computers and Geotechnics</i> , Vol. 35, No. 3, pp. 346-356.	State of Good Repair
2.	Cerato, A.B. and Victor, R. "Effects of Helical Anchor Geometry on Long-Term Performance for Small Wind Tower Foundations Subject to Dynamic Loads," <i>The Journal of the Deep Foundations Institute (DFI)</i> , Vol. 2, pp. 30-41.	State of Good Repair
3.	Chang, C.S.; Cerato, A.B. and Lutenegeger, A.J. "Modeling the Scale Effect of Granular Media for Strength and Bearing Capacity," <i>International Journal of Pavement Engineering</i> , Special Issue on Unified Approach for Characterizing, Modeling and Simulating of Stone-Based Infrastructure Materials.	State of Good Repair

4.	Commuri, S.; Tadigotla, V. and Atiquzzaman, M. "Reconfigurable Hardware Based Dynamic Data Aggregation in Wireless Sensor Networks," <i>International Journal of Distributed Sensor Networks</i> , Vol. 4, No. 2, pp. 194-212.	State of Good Repair
5.	Commuri, S.; Zaman, M. and Gonzalez, J.N. "A Neural Network-Based Compaction Analyzer for Density Measurement During the Construction of an Asphalt Pavement," <i>International Journal of Pavement Engineering</i> , Vol. 9, No. 3, pp. 177-188.	State of Good Repair, Economic Competiveness
6.	Grayeli, R. and Hatami, K. "Implementation of the Finite Element Method in the Three-Dimensional Discontinuous Deformation Analysis (3D-DDA)," <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , Vol. 32, No. 15, pp. 1883-1902.	State of Good Repair
7.	Hamid, T.B. and Miller, G.A. "A Constitutive Model for Unsaturated Soil Interfaces," <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , Vol. 32, No. 13, pp. 1693-1714.	State of Good Repair
8.	Hatami, K. and Witthoeft, A.F. "A Numerical Study on the Use of Geofoam to Increase the External Stability of Reinforced Soil Walls," <i>Geosynthetics International</i> , Vol. 15, No. 6, pp. 452-470.	State of Good Repair
9.	Hatami, K.; Witthoeft, A.F. and Jenkins, L.M. "Influence of Inadequate Compaction Near the Facing on the Construction Response of Wrapped-Face MSE Walls," <i>Transportation Research Record, Journal of the Transportation Research Board</i> , No. 2045, pp. 85-94.	State of Good Repair
10.	Kang, T.H.; Robertson, I.N.; Hawkins, N.M. and LaFave J.M. "Recommendations for Design of Post-Tensioned Slab-Column Connections Subjected to Lateral Loading," <i>Journal of the Post-Tensioning Institute</i> , Vol. 6, No. 1, pp. 45-59.	State of Good Repair
11.	Kang, T.H. and Wallace J.W. "Seismic Performance of Reinforced Concrete Slab-Column Connections with Thin Plate Stirrups," <i>ACI Structural Journal</i> , Vol. 105, No. 5, pp. 617-625.	State of Good Repair
12.	Kang, T.H. and Wallace, J.W. "Stresses in Unbonded Tendons of Post-Tensioned Flat Plate Systems Under Dynamic Excitation," <i>Journal of the Post-Tensioning Institute</i> , Vol. 6, No. 1, pp. 31-44.	State of Good Repair
13.	Ma, X. and Refai, H. "Analysis of Sliding Frame R-ALOHA Protocols for Real-Time Distributed Wireless Networks," <i>Wireless Networks</i> .	Safety
14.	Miller, G.A.; Khoury, C.K.; Muraleetharan, K.K.; Liu, C. and Kibbey, C.G. "Effects of	State of Good Repair

	Soils Skeleton Deformations on Hysteretic Soil Water Characteristic Curves: Experiments and Simulations,” <i>Water Resources Research</i> , Vol. 44, Article No. W00C06.	
15.	Myers, D.; Kang, T.H. and Ramseyer, C. “Early-Age Properties of Polymer Fiber-Reinforced Concrete,” <i>International Journal of Concrete Structures and Materials</i> , Vol. 2, No. 1, pp. 9-14.	State of Good Repair
16.	O’Rear, E.; Wasuiddin, N.L.M. and Zaman, M.M. “Effect of Sasobit® and Aspha-Min® on Wettability and Adhesion Between Asphalt Binders and Aggregates,” <i>Transportation Research Record</i> , No. 2051, pp. 80-89.	State of Good Repair
17.	Pei, J.S.; Kapoor, C.; Graves-Abe, T.L.; Sugeng, Y.P. and Lynch, J.P. “An Experimental Investigation of the Data Delivery Performance of Wireless Sensing Units Composed of Off-the-Shelf Components for Structural Health Monitoring,” <i>Journal of Structural Control and Health Monitoring</i> , Vol. 15, No. 4, pp. 471-504.	State of Good Repair
18.	Pei, J.S. and Mai, E.C. “Constructing Multilayer Feedforward Neural Networks to Approximate Nonlinear Functions in Engineering Mechanics Applications,” <i>ASME Journal of Applied Mechanics</i> , Vol. 75.	State of Good Repair
19.	Ramseyer, C.; Chancellor, B. and Kang, T.H. “Economic and Fast-Track Rehabilitation of Concrete Pavements and Bridge Decks,” <i>International Journal of Concrete Structures and Materials</i> , Vol. 2, No. 2, pp. 107-113.	State of Good Repair
20.	Saha, M.C.; Kabir, M.E. and Jeelani, S. “Effect of Nanoparticles on Mode-I Fracture Toughness of Polurethane Foams,” <i>Polymer Composites</i> , Vol. 30, No. 8, pp. 1058-1064.	State of Good Repair
21.	Sarangan, V.; Devarapalli, M. and Radhakrishnan, S. “A Framework for Fast RFID Tag Reading in Static and Mobile Environments,” <i>Computer Networks Journal</i> , Vol. 52, No. 5, pp. 1058-1073.	Safety
22.	Solanki, P.; Ebrahimi, A. and Zaman, M. “Statistical Models for Determination of the Resilient Modulus of Subgrade Soils,” <i>International Journal of Pavement Research and Technology</i> , Vol. 1, No. 3, pp. 85-93.	State of Good Repair
23.	Watfa, M. and Commuri, S. “An Energy Efficient and Self-Healing 3-Dimensional Sensor Cover,” <i>International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC)</i> , Vol. 3, No. 1, pp. 33-47.	State of Good Repair
24.	Yang, Y.; Muraleetharan, K.K. and Yu, H.S. “Generalized Trapezoidal Numerical Integration of an Advanced Soil Model,” <i>International Journal for Numerical and</i>	State of Good Repair

	<i>Analytical Methods in Geomechanics</i> , Vol. 32, No. 1, pp. 43-64.	
25.	Zhai, Y., Yeary, M.; Havlicek, J.P. and Fan, G. "A New Centralized Sensor Fusion-Tracking Methodology Based on Particle Filtering for Power-Aware Systems," <i>IEEE Transactions on Instrumentation and Measurement</i> , Vol. 57, No. 10, pp. 2377-2387.	Safety

2009 Transportation Publications

Books

1.	Kang, T.H. <i>Earthquake Engineering of Concrete Flat Plate Systems</i> . Sarbrücken, Germany: VDM-Verlag Publishing.	State of Good Repair
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Book Chapters

1.	Bathurst, R.J.; Huang, B. and Hatami, K. "Numerical Modeling of Geosynthetic Reinforced Soil Walls." In J. Bull (Ed.) <i>Linear and Non Linear Numerical Analysis of Foundations</i> . New York, NY: Taylor & Francis.	State of Good Repair
2.	Hong, Y.; Adler, R.F.; Kirschbaum, D. and Huffman, G.J. "Satellite Remote Sensing for Landslide Susceptibility Mapping and Landslide Occurrence Prediction on a Global Basis." In Sassa, K. and Canuti, P. (Eds.) <i>Landslides Disaster Risk Reduction</i> . New York, NY: Springer-Verlag.	State of Good Repair
3.	Solanki, P.; Zaman, M. and Ebrahimi, A. "Regression and Artificial Neural Modeling of Resilient Modulus of Subgrade Soils for Pavement Design Applications." In Gopalakrishnan, K.; Ceylan, H. and Attoh-Okine, N.O. (Eds.) <i>Soft Computing in Pavement and Geomechanical Systems: Recent Advances</i> , pp. 269-304. New York, NY: Springer-Verlag.	State of Good Repair

Journals

1.	Cerato, A.B.; Miller, G.A. and Hajjat, J. “The Influence of Clod-Size and Structure on Wetting-Induced Volume Change of Compacted Soil.” <i>ASCE Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 135, No. 11, pp. 1620-1628.	State of Good Repair
2.	Cerato, A.B. and Victor, R. “Effects of Long-Term Dynamic Loading and Fluctuating Water Table of Helical Anchor Performance for Small Wind Tower Foundations.” <i>ASCE Journal of Performance of Constructed Facilities</i> , Vol. 23, No. 4, pp. 251-261.	State of Good Repair
3.	Commuri, S.; Mai, A. and Zaman, M. “Calibration Procedures for the Intelligent Asphalt Compaction Analyzer.” <i>ASTM Journal of Testing and Evaluation, Special Issue on Asphalt Materials</i> , Vol. 37, No. 5, pp. 454-462.	State of Good Repair
4.	Do, L.D.; Withayyapayanon, A.; Harwell, J.H. and Sabatini, D.A. “Environmentally Friendly Vegetable Oil Microemulsions using Extended Surfactants and Linkers.” <i>Journal of Surfactants and Detergents</i> , Vol. 12, pp. 91–99.	Environmental Sustainability
5.	Grayeli, R. and Hatami, K. “Response Analysis of Field-Scale Fully Grouted Standard Cable Bolts using a Coupled ANN-FDM Approach.” <i>ASCE Journal of Engineering Mechanics</i> , Vol. 135, No. 6, pp. 561-570.	State of Good Repair
6.	Hatami, K.; Grady, B.P. and Ulmer, M.C. “Sensor-Enabled Geosynthetics: Use of Conducting Carbon Networks as Geosynthetic Sensors.” <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 135, No. 7, pp. 863-874.	State of Good Repair
7.	Huang, B.; Bathurst, R.J. and Hatami, K. “Numerical Study of Reinforced Soil Segmental Walls using Three Different Constitutive Soil Models.” <i>ASCE Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 135, No. 10, pp. 1386-1398.	State of Good Repair
8.	Jones, J.D. and Pei, J.S. “Embedded Algorithms within an FPGA to Classify Nonlinear Single-Degree-of-Freedom Systems.” <i>IEEE Sensors Journal – Special Issue on Sensor Systems for Structural Health Monitoring</i> , Vol. 9, No. 11, pp. 1486-1493.	State of Good Repair
9.	Kang, T.H.-K.; Shin, M.; Mitra, N. and Bonacci, J.F. “Seismic Design of Reinforced Concrete Beam-Column Joints with Headed Bars.” <i>ACI Structural Journal</i> , Vol. 106, No. 6, pp. 868-877.	State of Good Repair
10.	Kang, T.H.-K.; Wallace, J.W. and Elwood, K.J. “Nonlinear Modeling of Flat-Plate Systems.” <i>ASCE Journal of Structural Engineering</i> , Vol. 135, Vol. 2, pp. 147-158.	State of Good Repair

11.	Khoury, N.K.; Zaman, M. and Brooks, R.M. "Variations of Resilient Modulus of Subgrade Soils with Post-Compaction Moisture Contents." <i>Journal of the Transportation Research Board</i> , No. 2101, pp. 72-81.	State of Good Repair
12.	Love, N.D.; Parthasarathy, R.N. and Gollahalli, S.R. "Rapid Characterization of Radiation and Pollutant Emissions of Biodiesel and Hydrocarbon Liquid Fuels." <i>Journal of Energy Resources Technology</i> , Vol. 131, Article No. 012202.	Safety
13.	Pei, J.S.; Ivey, R.A.; Lin, H.; Landram, A.R.; Sandburg, C.J.; Ferzli, N.A.; King, T.; Zaman, M. and Refai, H. "An Experimental Investigation of Applying Mica2 Motes in Pavement Condition Monitoring." <i>Journal of Intelligent Material Systems and Structures</i> , Vol. 20, pp. 63-85.	State of Good Repair
14.	Piyawat, K. and Pei, J.S. "Linking System Identification to Nonlinear Dynamic Simulation under OpenSees – Some Justifications and Implementations." <i>ASCE Journal of Engineering Mechanics</i> , Vol. 135, No. 11, pp. 1213-1226.	State of Good Repair
15.	Ravichandra, N. and Muraleetharan, K.K. "Dynamics of Unsaturated Soils using Various Finite Element Formulations." <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , Vol. 33, pp. 611-631.	State of Good Repair
16.	Rippel, M.; Schaefer, D.; Mistree, F. and Panchal, J.H. "Fostering Collaborative Learning and Mass-Customization of Education in a Graduate Engineering Design Course." <i>International Journal of Engineering Education</i> , Vol. 25, No. 4, pp. 729-744.	State of Good Repair
17.	Solanki, P.; Khoury, N. and Zaman, M. "A Comparative Evaluation of Various Additives Used in the Stabilization of Sulfate Bearing Soil." <i>Journal of ASTM International</i> , Vol. 6, No. 8, pp. 50-67.	State of Good Repair
18.	Solanki, P.; Khoury, N. and Zaman, M. "Properties and Moisture Susceptibility of Silty Clay Stabilized with Lime, Class C Fly Ash and Cement Kiln Dust." <i>ASCE Journal of Materials in Civil Engineering</i> , Vol. 21, No. 12, pp. 749-757.	State of Good Repair
19.	Solanki, P. and Zaman, M. "Effects of Lime and Cement Kiln Dust on the Performance of Lean Clays." <i>International Journal of Geotechnical Engineering</i> , Vol. 3, No. 4, pp. 455-465.	State of Good Repair
20.	Solanki, P.; Zaman, M.; Muraleetharan, K.K. and Timm, D. "Evaluation of Resilient Moduli of Pavement Layers at an Instrumented Section on I-35 in Oklahoma." <i>Road Materials and Pavement Design</i> , Vol. 10, pp. 167-188.	State of Good Repair

21.	Tachwali, Y. and Refai, H.H. "System Prototype for Vehicle Collision Avoidance Using Wireless Sensors Embedded at Intersections." <i>Journal of the Franklin Institute</i> , Vol. 346, No. 5, pp. 488-499.	Safety
22.	Tarefder, R.A.; Zaman, M.; Lin, D.-G. and Bergado, D.T. "Finite Element Modeling of Soft Ground with PVD under Vacuum and Embankment Preloading." <i>International Journal of Geotechnical Engineering</i> , Vol. 3, pp. 233-249.	State of Good Repair
23.	Wasiuddin, N.M.; Zaman, M. and Commuri, S. "Calibration of Non-Nuclear PQI Gauges and Field Comparison of PQI and Nuclear Gauge Densities." <i>International Journal of Pavement Research and Technology</i> , Vol. 2, No. 5, pp. 181-187.	State of Good Repair
24.	Wafra, M. and Commuri, S. "Energy Efficient Approaches to the Border Coverage Problems in Wireless Sensor Networks." <i>Journal of Communications and Networks (JCN)</i> , Vol. 11, No. 1, pp. 57-71.	Safety
25.	Whittle, J. and Ramseyer, C.C. "Buckling Capacities of Axially Loaded, Cold-Formed, Built-Up C-Channels." <i>Thin-Walled Structures</i> , Vol. 47, No. 2, pp. 190-201.	State of Good Repair
26.	Zaman, M.; Khoury, N. and Solanki, P. "Finite Element Modeling of Cementitious Stabilized Unnotched Beams Using a Smeared Fracture Approach." <i>ASCE International Journal of Geomechanics</i> , Vol. 9, No. 1, pp. 34-42.	State of Good Repair

2010 Transportation Publications

Books

1.	McDowell, D.L.; Panchal, J.H.; Choi, H.-J.; Seepersad, C.C.; Allen, J.K. and Mistree, F. <i>Integrated Design of Multiscale Materials and Products</i> . New York: Elsevier.	State of Good Repair
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Journals

1.	Brueggen, B.; Kang, T.H.-K. and Ramseyer, C. "Experimental and SEM Analyses of Ground Fly Ash in Concrete," <i>International Journal of Concrete Structures and Materials</i> , Vol. 3, No. 1, pp. 51-54.	State of Good Repair
2.	Buhler, R. and Cerato, A.B. "Design of Dynamically Wind-Loaded Helical Piers for	State of Good Repair

	Small Wind Turbines,” <i>ASCE Journal of Performance of Constructed Facilities</i> , Vol. 24, No. 4, pp. 417-426.	
3.	Chang, C.S.; Cerato, A.B. and Lutenegeger, A.J. “Modeling the Scale Effect of Granular Media for Strength and Bearing Capacity,” <i>International Journal of Pavement Engineering</i> , Special Issue on Unified Approach for Characterizing, Modeling and Simulating of stone-Based Infrastructure Materials, Vol. 11, No. 5, pp. 343-353.	State of Good Repair
4.	Fan, X.; Fan, G. and Havlicek, J.P. “Generative Model for Maneuvering Target Tracking,” <i>IEEE Transactions in Aerospace and Electronic Systems</i> , Vol. 46, No. 2, pp. 635-655.	Safety
5.	Gourley, J.J.; Erlingis, J.M.; Smith, T.M.; Ortega, K.L. and Hong, Y. “Remote Collection and Analysis of Witness Reports on Flash Floods,” <i>Journal of Hydrology</i> , Vol. 394, No. 1-2, pp. 53-62 (Special Issue on Flash Flood: Observations and Analysis of Hydrometeorological Controls)	Environmental Sustainability
6.	Huang, B.; Bathurst, R.J.; Hatami, K. and Allen, T.M. “Influence of Toe Restraint on Reinforced Soil Segmental Walls,” <i>Canadian Geotechnical Journal</i> , Vol. 47, No. 8, pp. 885-904.	State of Good Repair
7.	Huang, Y.; Kang, T.H.-K.; Ramseyer, C. and Rha, C. “Background to Multi-Scale Modeling of Unbonded Post-Tensioned Concrete Structures,” <i>International Journal of Theoretical and Applied Multiscale Mechanics</i> , Vol. 1, No. 3, pp. 219-230.	State of Good Repair
8.	Kim, W.; Piyawat, K.; Ramseyer, C. and Kang, T.H.-K. “Experimental and Numerical Simulations of Prestressed Self-Consolidating-Concrete Structures Subject to Nonlinear Deformations,” <i>International Journal of Theoretical and Applied Multiscale Mechanics</i> , Vol. 1, No. 4, pp. 319-338.	State of Good Repair
9.	Liu, W.; Hong, Y.; Khan, S.I.; Huang, M.; Vieux, B.; Caliskan, S. and Grout, T. “Actual Evapotranspiration Estimation for Different Land Use and Land Cover in Urban Regions using Landsat 5 Data,” <i>Journal of Applied Remote Sensing</i> , Vol. 4, No. 1, Article No. 041873 (14 pages).	Safety
10.	Probst, A.D.; Kang, T.H.-K.; Ramseyer, C. and Kim, U. “Composite Flexural Behavior of Full-Scale Concrete Filled Tubes without Axial Loads,” <i>ASCE Journal of Structural Engineering</i> , Vol. 136, No. 11, pp. 1401-1412.	State of Good Repair
11.	Shin, M.; Kang, T.H.-K. and Grossman, J. “Practical Modeling of High-Rise Dual Systems with Reinforced Concrete Slab-Column Frames,” <i>The Structural Design of Tall and Special Buildings</i> , Vol. 19, No. 7, pp. 728-749.	State of Good Repair

12.	Solanki, P. and Zaman, M. "Laboratory Performance Evaluation of Subgrade Soils Stabilized with Sulfate Bearing Cementitious Additives," <i>ASTM Journal of Testing and Evaluation</i> , Vol. 38, No. 1, pp. 1-12.	State of Good Repair
13.	Solanki, P.; Zaman, M. and Dean, J. "Resilient Modulus of Clay Subgrades Stabilized with Lime, Class C Fly Ash and Cement Kiln Dust for Pavement Design," <i>Journal of the Transportation Research Board</i> , No. 2186, pp. 101-110.	State of Good Repair
14.	Wasiuddin, N.M.; Hamid, W.B.; Zaman, M.M. and Nairn, R.W. "Use of Raw Chat in HMA Surface – Environmental and Engineering Characterization," <i>Journal of Solid Waste Technology and Management</i> , Vol. 36, No. 2, pp. 69-80.	Environmental Sustainability
15.	Wasiuddin, N.M.; Zaman, M. and O'Rear, E. "Polymeric Aggregate Treatment Using Styrene-Butadiene Rubber (SBR) for Moisture-Induced Damage Potential," <i>International Journal of Pavement Research and Technology</i> , Vol. 3, No. 1, pp. 1-9.	State of Good Repair
16.	Zaman, M.; Solanki, P.; Ebrahimi, A. and White, L.W. "Neural Network Modeling of Resilient Modulus Using Routine Subgrade Soil Properties," <i>International Journal of Geomechanics</i> , Vol. 10. No. 1, pp. 1-12.	State of Good Repair