2016 Faculty Publications


A Statistical Analysis of Network-Level Skid Numbers for Asphalt Pavement Surfaces in Utah, Transportation Research Board 95th Annual Meeting Compendium of Papers. Smith, A. B., Knighton, J. T., Guthrie, W. S.


Crash Prediction Modeling for Curved Segments of Rural Two-Lane Two-Way Highways in Utah, Compendium of the 95th Annual Transportation Research Board Meeting. Knecht, C. S., Saito, M., Schultz, G. G.


Evaluation of DMT-based Liquefaction Triggering Curves Based on Field Case Histories, Procs. 5th Intl. Conf. on Site Characterization. Rollins, K. M., Remund, T., Amoroso, S.

Extending HydroShare to enable hydrologic time series data as social media, J. Hydroinformatics. Sadler, J., Ames, D. P., Livingston, S. J.


Hindcasting Water Quality in an Optically Complex System, 13th International Conference on Modelling, Monitoring and Management of Water Pollution. Hansen, C., Burian, S., Barber, M., Williams, G. P.


Liquefaction Resistance of Gravelly Soil from Becker Penetrometer (BPT) and Chinese Dynamic Cone Penetrometer (DPT), Procs. 5th Intl. Conf. on Site Characterization. Rollins, K. M., Youd, T. L., Talbot, M.


Mitigating Safety in Utah Using the Hot Spot Identification and Analysis Methodology, Proceedings of the International Conference on Transportation & Development. Schultz, G. G., Farnsworth, J. S., Saito, M.


Privacy Aware Mission Planning and Video Masking for UAV Systems, AIAA Infotech@Aerospace. Martin, R. A., Hall, A., Brinton, C., Franke, K. W., Hedengren, J. D.

Reconnaissance of Two Liquefaction Sites Using Small Unmanned Aerial Vehicles and Structure from Motion Computer Vision Following the April 1, 2014 Chile Earthquake, Journal of Geotechnical and Geoenviromental Engineering. Franke, K. W., Rollins, K. M., Ledezma, C., Hedengren, J. D., Wolfe, D., Ruggles, S., Bender, C., Reimschiissel, B.

Reservoir Sustainability and Sediment Management, Journal of Water Resources Planning and Management. George, M. W., Hotchkiss, R. H., Huffaker, R.


Robust Surface Reconstruction, SIAM Journal on Imaging Sciences. Estellers, V., Scott, M. A., Soatto, S.


Shear strength of dry-stack masonry walls, 16th International Brick and Block Masonry Conference. Eixenberger, J. G., Fonseca, F. S.

Shrive Quasi-static cyclic testing of partially grouted masonry walls with openings—preliminary results, 16th International Brick and Block Masonry Conference. Fortes, E. S., Silva, M. R., Parsekian, G. A., Fonseca, F. S., Shrive, N. G.

Simplified Performance-Based Assessment of Liquefaction Triggering using Liquefaction Loading Maps, Journal of Geotechnical and Geoenvironmental Engineering. Ulmer, K. J., Franke, K. W.

Structural Analysis and Optimization of Tall Buildings Connected with Skybridges and Atria, Structural and Multidisciplinary Optimization. McCall, A. J., Balling, R. J.


The Impact of Bicycle Corridors on Travel Demand in Utah, Utah Department of Transportation Research Division. Schultz, G. G., Haskell, C. K., Bassett, D. R., Burbidge, S. K.

The influence of a thin mortar layer on a mortarless masonry wall system, 16th International Brick and Block Masonry Conference. Fonseca, F. S., Eixenberger, J. G.

The influence of block geometry on the compressive strength of clay masonry, 16th International Brick and Block Masonry Conference. Fonseca, F. S., Rizzatti, E., Lindner, G., Ramos, H. R., Mohamed, G.


Use of Roadway Attributes in Hot Spot Identification and Analysis, Compendium of the 95th Annual Transportation Research Board Meeting. Schultz, G. G., Bassett, D. R., Saito, M.