Amin Askarinejad, Dr Sc

Curriculum Vitae

Assistant Prof. of experimental soil mechanics
TU Delft
E A.Askarinejad@tudelft.nl
W http://www.citg.tudelft.nl/AAskarinejad

Amin Askarinejad is assistant professor of experimental soil mechanics at Delft University of Technology. His research interests include slope stability analysis, unsaturated soil mechanics and soil atmosphere interactions. He conducted his doctoral project on the failure mechanisms of landslides due to hydraulic perturbations at the Institute of Geotechnical Engineering at ETH Zurich, Switzerland where he also did a postdoctoral research afterwards. His main interest is on the geotechnical, geological, hydrogeological, and biological interacting processes affecting the responses of slopes using tools from geotechnical engineering, geophysics and remote sensing. To that goal, he has performed field experiments including full scale landslide triggering, laboratory testing, physical modelling using geotechnical centrifuge, analytical modelling and HM coupled numerical simulations.

Academic Background

May 2014 – to date
TU Delft, Faculty of Civil Engineering and Geosciences
Assistant professor of experimental soil mechanics

Apr. 2008 – Apr. 2014
ETH Zurich, Institute of Geotechnical Engineering, Switzerland
PhD candidate, Postdoc researcher and teaching assistant

Selected list of Publications

1. Askarinejad, A. & Springman, S.M. (2017). A novel technique to monitor the subsurface movements of landslides. Canadian Geotechnical Journal, doi: https://doi.org/10.1139/cgj-2016-0338.
2. Askarinejad, A., Beck, A. & Springman, S.M. (2015). Scaling law of static liquefaction mechanism in geo-centrifuge and corresponding hydro-mechanical characterisation of an unsaturated silty sand having a viscous pore fluid. Canadian Geotechnical Journal, 52: 1-13, doi:10.1139/cgj-2014-0237.
3. Askarinejad, A., Bischof, P., Beck, A., Casini, F. & Springman, S.M. (2012). Rainfall induced instabilities: a field experiment on a silty sand slope in northern Switzerland. RIG (Italian Geotechnical Journal) 46(3): 50-71.
4. Casini, F., Askarinejad, A. & Springman, S.M. (2016). Infiltration-induced Slope Instability: a multi-scale approach3rd European Conference on Unsaturated Soils – "E-UNSAT 2016", EDP Sciences, 9:400-406, doi: https://doi.org/10.1051/e3sconf/20160904005.
5. Elia, G., Cotecchia, F., Pedone, G., Vaunat, J., Vardon, P.J., Pereira, C., Springman, S.M., Rouainia, M., Van Esch, J., Koda, E., Josifovski, J., Nocilla, A., Askarinejad, A., Stirling, R., Helm, P., Lollino, P. & Osinski, P. (2017). Numerical modelling of slope–vegetation–atmosphere interaction: an overview. Quarterly Journal of Engineering Geology and Hydrogeology, 50(30): 249-270, doi:10.1144/qjegh2016-079.
6. Lehmann, P., Gambazzi, F., Suski, B., Baron, L., Askarinejad, A., Springman, S.M., Holliger, K. & Or, D. (2013). Evolution of soil wetting patterns preceding a hydrologically induced landslide inferred from electrical resistivity survey and point measurements of volumetric water content and pore water pressure. Water Resources Research, 49(12): 7992-8004, doi:10.1002/2013WR014560.
7. Shahnazari, H., Salehzadeh, H. & Askarinejad, A. (2008). Determination of virtual cohesion in unsaturated sand trenches, using geotechnical centrifuge. International Journal of Civil Engineering, 6(1): 1-9.
8. Tang, A.-M., Hughes, P.N., Dijkstra, T.A., Askarinejad, A., Brencic, M., Cui, Y.J., Gentile, F., Gowing, J., Jommi, C., Kehagia, F., Keszeyné Say, E., ter Maat, H.W., Lenart, S., Lourenco, S., Oliveira, M., Osinski, P., Springman, S.M., Stirling, R., Toll, D. & Viterbo, p. (2018). Atmosphere – vegetation – soil interactions impacts on engineered slopes: A review on recent advances. Quarterly Journal of Engineering Geology and Hydrogeology, doi:10.1144/qjegh2017-103.
9. Springman, S.M., Askarinejad, A., Casini, F., Friedel, S., Kienzler, P., Teysseire, P. & Thielen, A. (2012). Lessons learnt from field investigations in potentially unstable slopes in Switzerland. Slovenian Geotechnical Journal, 9(1): 5-29.
10. Świtała, B.M., Askarinejad, A., Wu, W. & Springman, S.M. (2017). Experimental validation of a coupled hydro-mechanical model for vegetated soil. Géotechnique, 1-11, doi:10.1680/jgeot.16.P.233.