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AREAS OF INTEREST

Geotechnical Engineering

EDUCATION

- 03/2017-02/2021 **Doctor of Philosophy in Civil Engineering**
Dept. of Civil Engineering, Konkuk University, Korea
- 03/2012-02/2014 **Master of Engineering in Civil Engineering**
Dept. of Civil Engineering, Konkuk University, Korea
- 03/2004-02/2012 **Bachelor of Engineering in Civil Engineering**
Dept. of Civil Engineering, Konkuk University, Korea

THESIS

- 2014 **“Evaluation of dynamic piping stability for embankments with flood water level”**
Supervisor Professor Jong Ho Shin, Dept. Civil Engineering, Konkuk University, Korea
- 2021 **“ Eco-friendly Earth Reinforcing Material using Biopolymer and Natural Fiber”**
Supervisor Professor Jong Ho Shin, Dept. Civil Engineering, Konkuk University, Korea

RESEARCH PROJECT

- 05/2012-04/2018 **A study on the dynamic structural and hydraulic interaction of river embankments under flooding conditions.**
Supported by National Research Foundation of Korea
- 06/2013-05/2015 **Development of key subsea tunnelling technology.**
Supported by the Korea Agency for Infrastructure Technology Advancement
- 03/2012-11/2012 **Preliminary study on the dynamic interaction between urban railway-tunnels during operation.**
Supported by the Korea Railroad Research Institute

PUBLICATIONS

- Journal Paper** J.H. Shin, K.H. Kim, D.R. Kim, H.S. Ji, **An experimental study on the static behavior of advanced composite materials drainage pipe member for an undersea tunnel**, *Journal of Korean Tunnelling and Underground Space Association* 17.2 (2015).
- C.A. Murillo, J.H. Shin, K.H. Kim, J.E. Colmenares, **Performance Test of Geotextile Permeability for Tunnel Drainage Systems**, *KSCE Journal of Civil Engineering* 18.3 (2014).
- T.H. Hwang, K.H. Kim, J.H. Shin, **Effective installation of micropiles to enhance bearing capacity of micropiled raft**, *SOILS AND FOUNDATIONS* 57.1 (2017)
- T.H. Hwang, K.H. Kim, J.H. Shin, **Bearing capacity of micropiled-raft system**, *Structural Engineering and Mechanics* 63(3) (2017)
- J.M. Park, K.H. KIM, J.H. Shin, **Evaluation of Roofing Potential at the Ground-structure Interface**, *Journal of the Korean GEO-environmental Society* 19(3) (2018).
- H.J. Kim, K.H. Kim, H.M. Kim, J.H. Shin, **Anchorage mechanism and pullout resistance of rock bolt in water-bearing rocks**, *Geomechanics and Engineering* 15(3) (2018)
- H.J. Kim, K.H. Kim, J.H. Shin, **Study on the discharge of soil particles and ground collapse through cracks in underground structures**, *Journal of Korean Tunnelling and Underground Space Association* 21(5) (2019).
- H.K. Moon, K.H. Kim, H.J. Kim, J.H. Shin, **Ground-born vibration at multileveled train tunnel crossing**, *Structural Engineering and Mechanics* 73(4) (2020).

K.H. Kim, H.J. Kim, J.H. Jeong, J.H. Shin, **Significance of nonlinear permeability in the coupled-numerical analysis of tunnelling**, *Geomechanics and Engineering* 21(2) (2020).

K.H. Kim, N.H. Park, H.J. Kim, J.H. Shin, **Modelling of hydraulic deterioration of geotextile filter in tunnel drainage system**, *Geotextiles and Geomembranes* 48(2) (2020).

J.H. Jeong, **K.H. Kim**, J.H. Shin, **Groundwater control measures for deep urban tunnels**, *Journal of Korean Tunnelling and Underground Space Association* 23(6) (2021).

J. Ndagijima, **K.H. Kim**, S.H. Kim, J.H. Shin, **Stabilization of Lateritic Soil with Eggshell Powder**, *Journal of the Korean GEO-environmental Society* 23(1) (2022).

K.T. Nam, J.H. Jeong, Kim, S.H. Kim, **K.H. Kim**, J.H. Shin, **Measures to control deformation in deep excavation for cut and cover tunneling**, *Geomechanics & engineering* 29(3) (2022).

K.H. Kim, Y.J. Jung, Y.J. Shin, J.H. Shin, **Optimizing the drainage system of subsea tunnels using the PSO algorithm**, *Marine Georesources & Geotechnology* 42(3) (2024).

Conference paper H.K. Moon, **K.H. Kim**, H.J. Kim, J.H. Shin, **Dynamic Interaction between Railway Tunnels at Multi-levelled Tunnel Intersection**, *The World Tunnel Conference 2016*, San Francisco

D.R. Kim, **K.H. Kim**, K.C. Kim, J.H. Shin, **A Study on Composite Material for Drain Pipe in Subsea Tunnel**, *The 2015 World Congress on Advance in Structural Engineering and Mechanics*, Korea

K.H. Kim, G.C. Park, D.R. Kim, J.H. Shin, **Evaluation of piping stability under dynamic conditions**, *Eighth International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground(IS-Seoul2014)*, Korea

J.H. Shin, K.H. Choi, **K.H. Kim**, D.R. Kim, **Smart Control of Hydraulic Actions in Tunnels and Underwater Structures**, *Proceedings of the World Tunnel Congress 2014*, Brazil

J.U. Yoon, J.W. Han, **K.H. Kim**, E.J. Joo, J.H. Shin, **Effects of Pore Water Pressures on Double Shell Tunnels for Various Cross Sections**, *International Symposium on Tunnelling and Underground Space Construction for Sustainable Development*, 2013, Korea

H.K. Moon, **K.H. Kim**, G.C. Park, J.W. Han, J.H. Shin, **Basic study of train induced vibration superposition at tunnel intersection**, *KSCE 2013 Convention*, Korea

K.H. Choi, **K.H. Kim**, E.J. Joo, J.H. Shin, **Development of the Geotextile Hydraulic Conductivity Testing Equipments Considering Curved Drain Surface**, *Korea Geotechnical Society Fall National Conference*, 2012, Korea