Professor Jong-Sub Lee

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Dr. Jong-Sub Lee received his B.S. degree in Civil Engineering from Korea University in 1991, M.S. degree in Civil and Environmental Engineering from KAIST (Korea Advanced Institute of Science and Technology) in 1993. After working at Hyundai for seven years as a research engineer, he earned M.S. and Ph.D. degrees in Geotechnical Engineering from Georgia Institute of Technology, Atlanta, Georgia in 2003.

He has been a professor of Civil, Environmental, and Architectural Engineering at Korea University since 2005. Dr. Lee's Lab was selected as 'National Leading Research Lab' from National Research Foundation of Korea. He has published more than 160 papers in peer reviewed international and domestic journals, and more than 220 conference papers. He got several paper awards or paper commendation awards from KGS (Korean Geotechnical Society), KTUSA (Korean Tunnelling and Underground Space Association), and ASCE. He is serving as an Editor-In-Chief of the International Journal of Geo-Engineering, Springer.

Dr. Lee's research interests are wave- and IT-based experimental and analytical studies that apply elastic and electromagnetic waves to geotechnical engineering problems. Especially his group has developed non-destructive testing methods for infrastructures including tunnels and underground spaces using ultrasonic imaging. His research covers soil behavior characterization, particularly for laboratory tests by using elastic and electromagnetic waves. He is also interested in geo-instrumentation including ubiquitous senor network and tomography. His group has developed several in-situ and lab testing devices including Field Velocity Probe, Field Velocity Resistivity Probe, Electrical resistivity Probe, Micro cones, Penetration type TDR, Slimeter and so on. In addition, his group characterizes the engineered mixtures, soluble mixtures, and cemented soils. His research also includes geotechnical earthquake engineering, liquefaction, and vibration. He has studied pile behavior and in-situ characterization, especially for the evaluation of the void ratio, stiffness, water content estimation, and capacity. Researches in his group include the fundamental study of geo-material behaviors and the use of innovative techniques for the solution of civil engineering problems.