

IGT-Kolloquium

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New evaluation of geotechnical properties in wide areas

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14. 00 Uhr, ETH Zürich, Hönggerberg, HIL E 6

Sophisticated predictions of strong ground motion are vital when constructing geo-structure models that enable us to evaluate broadband ground motion features. Such models should be integrated for strata shallower than engineering bedrock, and deep structure models should be used for deeper strata. Both models are modeled separately so that observation data can be reproduced. In this study, a subsurface structure model was created, applicable from seismic bedrock to ground surface for individual Japanese prefectures, e.g. Chiba and Ibaragi, attempting to develop sophisticated subsurface structure models. We will show how these models were created, and the key results will be reviewed. This is a series of activity of a Japanese proposal to ISO standardization. A demonstration using actual devices will also be given.

Dr. Miyata is Professor at the National Defense Academy of Japan. He has received his D.Eng from Kyushu University and has authored or co-authored more than 80 journal papers and 90 conference papers. He is General Director of JGS Engineering, Associate Editor of Soils Foundation, Board Member of Geosynthetics Int, and Secretary of the IGS Technical Committee. He has received the Best Paper Awards of GI (2015), SF (2013), Can Geotech J (2008), Geosynth Eng J (2008), as well as the JGS Outstanding Achievement Award (2016) and IGS Gold Medal (2010).

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