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## PDS 1f: Prediction and performance SPD 1f: Prédiction et performance

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Paper Presentation and Poster Discussion Session (PDS) for “1f: Prediction and Performance” was held at Rm 1001-1002 (10F) at 16:00-19:00, September 14 Wednesday. In PDS-1f, 33 papers were submitted, among which, the number of paper that was submitted but not presented is ten, the number of the paper that oral presentation was given is nineteen and the number of the paper that only poster presentation was given is four. Each oral presentation has five minutes to speak. The topics of the session including: (a) neural networks analysis; (b) probabilistic analysis of deformation; (c) soil-water coupling problem; (d) mechanical behaviors of quasi-saturated soils; (e) mechanical behaviors of unsaturated soils; (f) creep behaviors and long term stabilities of soil structures; (g) land slide; (h) case histories of dam, retaining wall, pile foundation, embankment and (i) field measurement. These researches were firstly introduced by Prof. D. Potts in his 45 minutes of general report in TS-1f before the PDS-1f. Due to his great effort to summarize the overall works of all the papers submitted to PDS-1f, the audiences could understand the general ideas of the papers and therefore it is much easier to understand the detailed reports within five minutes of each individual oral presentation. The way used in this conference that author of each paper can have the chance to present his paper seems very good, though the time of the session was a little bit of longer. Another impression of the session is that most of discussers were the people who are from English-spoken countries, though the researchers from non-English-spoken countries have done very good researches in this field.

Detailed information about the presentation in PDS-1f is as follows:

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| <p>[1] Ex-post-facto estimate of performance at the offshore reclamation of Airport Osaka/KIA - <i>Akai, K., Tanaka, Y.</i></p> <p>[2] Measurement of the soil-water characteristic curve of quasi-saturated soils - <i>Bicalho, K.V., Znidarcic D., Ko, H.-Y.</i></p> <p>[3] Long term settlement of foundations made of 195 x 147 m slabs built on a layer of fluvial sediment - <i>Dapena, E., Roman, F., San Salvador, J.</i></p> <p>[4] Probabilistic settlement analysis of rectangular footings - <i>Griffiths, D.V., Fenton, G.A.</i></p> <p>[5] Long-term settlement prediction of Shanghai metro tunnels - <i>Huang, H.W., Zhang, D.M., Hicher, P.Y.</i></p> <p>[6] Analytical modeling and field assessment of embankment stabilized with vertical drains and vacuum preloading - <i>Indraratna, B., Rujikiatkamjorn, C., Sathananthan, I.</i></p> <p>[7] Kansai International Airport, Future settlements - <i>Juárez-Badillo, E.</i></p> | <p>[8] The principle of natural proportionality applied to the behavior of piles - <i>Juárez-Badillo, E.</i></p> <p>[9] Prediction and performance for the foundation of a 40-storied tower in Tenerife Island - <i>Justo, J.L., de Justo, E., Durand, P.</i></p> <p>[10] Three examples of using artificial neural networks in geotechnical engineering - <i>Koelewijn, A.R., Maccabiani, J.</i></p> <p>[11] Viscous deformation of geogrid-reinforced sand in plane strain compression - <i>Kongkitkul, W., Tatsuoka, F.</i></p> <p>[12] Observational method to predict future settlements - <i>Lämsivaara, T.</i></p> <p>[13] Performance review and safety evaluation of the Botonega Reservoir and Dam - <i>Matešić, L., Kvasnička, P.</i></p> <p>[14] Numerical assessment for long-term settlement of the reclaimed Pleistocene deposits - <i>Mimura, M., Jang, W.Y., Yamamoto, K.</i></p> <p>[15] Deformation of embankments on soft ground - Better computer simulation resulted from in-put data closer to the reality - <i>Ohta, H., Takeyama, T., Mizuta, T., Nabetani, M., Nishida, Y.</i></p> <p>[16] Prediction of paste backfill performance using artificial neural networks - <i>Rankine, R.M., Sivakugan, N.</i></p> <p>[17] Performance of a large dam, field measurements and analytical approach - <i>Sadrekarimi, J., Kia, M.</i></p> <p>[18] How a distressed quay wall could be moved backed in place - <i>Simon, B., Barras, P.</i></p> <p>[19] Diaphragm wall's behaviour : predictions and measures - <i>Vanoudheusden, E., Petit, G., Robert, J., Emeriault, F., Kastner, R.</i></p> <p>[*] Settlement calculation with stress dependent parameters - <i>Aalto, A., Vepsäläinen, P., Ravaska, O.</i></p> <p>[*] Prediction of shallow foundation settlements by stiffness-strain factors - <i>Bovolenta, R., Berardi, R.</i></p> <p>[*] A simple method to predict settlement from previous measurements - <i>Ravaska, O.</i></p> <p>[*] Consolidation behavior around pc value by Inter-connected oedometer test - <i>Tanaka, H., Udaka, K., Nosaka, T.</i></p> |
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Note:  
 [\*] Poster presentation only, no oral presentation - four papers