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Feng Zhang, Shuji Moriguchi, Kazuhide Sawada, Guanlin Ye, Soils and Foundations, Volume 63

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このシンポジウムは、地滑りや斜面の災害防止と 軽減を目指す非営利団体である国際ジオ災害軽減 コンソーシアム(ICGdR)によって主催される2年 ごとの国際シンポジウムである.

シンポジウムの目的

斜面リスク評価および設計に貢献する最新の技術 や関連技術に関する情報を共有し世界中でネット ワークを形成することである.

シンポジウムのトピックである不確実性,動的挙動,性能設計,およびそれに関連する実務プロジェクトなどが主要なテーマと設定された.

- 1. D. Watanabe, S. Moriguchi, K. Terada, Numerical Study on the Effects of Particle Size Distribution on Run-out Distance of Granular Flow, D. Watanabe, S. Moriguchi, K. Terada, https://doi.org/10.1016/j.sandf.2022.101242
- 2. Wentao He, Tatsuya Ishikawa, Yulong ZHU, Wide/narrow-area slope stability analysis considering infiltration and runoff during heavy precipitation, https://doi.org/10.1016/j.sandf.2022.101248
- 3. Akiyoshi Kamura, Tomomi Kaneko, Noboru Sato, Motoki Kazama, Case study on viability of using head-separated micropiles as foundation system for check dams, https://doi.org/10.1016/j.sandf.2023.101275
- 4. Yu Huang, Boyu Fu, Zhen Guo, Atsushi Yashima, A modified deformation coordination model for calculating the internal force of anchored piles, https://doi.org/10.1016/j.sandf.2023.101283
- 5. Takayuki Sakai, Shogo Inukai, Motohiro Inagaki, Masaki Nakano, Improvement in seismic resistance using replacement/counterweight fill method for existing high embankments on inclined ground constructed
- with various embankment materials, https://doi.org/10.1016/j.sandf.2023.101284
- 6. Shota Yoshida, Xi Xiong, Tatsunori Matsumoto, Experimental and numerical study on reinforcement effects of plate anchors or flip anchors on model slopes, https://doi.org/10.1016/j.sandf.2023.101285
- 7. Yu Huang, Zhengying He, Rainfall-oriented resilient design for slope system: resilience-enhancing strategies, https://doi.org/10.1016/j.sandf.2023.101297
- 8. Min Xiong, Wenwen Wang, Yu Huang, System dynamic reliability evaluation of multiple failure modes of earth dams subjected to strong earthquake excitation, https://doi.org/10.1016/j.sandf.2023. 101298
- 9. An-Jui Li, Hsiu-Chen Wen, Varian Harwin Batistuta, Shih-Hao Cheng, Influence of Ground Anchors Corrosion and Uncertainty Strength Parameters: A Case Study Slope Failure in Northern Taiwan, https://doi.org/10.1016/j.sandf.2023.101316
- 10. Takashi Hara, Naoki Tatta, Atsushi Yashima, Assessment of ground-anchored slope stability based on variation in residual tensile forces, https://doi.org/ 10.1016/j.sandf.2023.101353
- 11. Xiaoqing Feng, Bin Ye, Jie He, Husheng Miao, Chuangji Lin, Shaking Table Test on Underwater Slope Failure Induced by Liquefaction, https://doi.org/10.1016/j.sandf.2023.101357
- 12. Kaixuan YUAN, Yuusuke MIYAZAKI, Wataru KUNIMATSU, Kohei MIKI, Tomihiko OHISHI, Kiyoshi KISHIDA, Excavation analysis of largescale slope considering effects of folded structure and in-situ stress, https://doi.org/10.1016/j.sandf.2023.101373