## Theme 9: Civil geotechnical engineering



Index No.	Paper No.	Paper Title	Authors	Affiliation
1	9	Ground motion at a rock trapezoidal hill under seismic waves induced by an underground exploitation	Li Zhengliang, Li Jianchun, Zhang Qi and Zhao Jian	Southeast University
2	11	The nondestructive examination to concrete piles based on the theory of Hilbert-Huang Transform	Yiming Huang, Jianhui Deng, Lu Zheng, Jianfeng Liu and Aijuan Liu	Sichuan University
3	15	Study of optimum support time of brittle underground cavern based on time dependent deformation	Jian-Hai Zhang and Lu Zheng	Sichuan University
4	16	Study of Pre-load Factor of Pre-stressed Anchorage Rope in High Geo-stress Underground Power House	Lu Zheng and Jian-Hai Zhang	Sichuan University
5	20	Numerical simulation for dynamic fragmentation during the mass movement process of high-speed rock avalanches	Shi-Lin Zhang, Xing-Guo Yang and Jia-Wen Zhou	Sichuan University
6	21	Characterization and large deformation monitoring of a post-earthquake rock slope using terrestrial laser scanning	Hai-Bo Li, Xing-Guo Yang and Jia-Wen Zhou	Sichuan University
7	22	Stability analysis for the excavation process of a post- earthquake slope at the Hongshiyan Hydropower Station	Hao Xu, Xing-Guo Yang and Jia-Wen Zhou	Sichuan University
8	36	Combined effects of rock fragmentation and basal erosion on rock avalanche mobility: insights from discrete element analyses	Tao Zhao, Giovanni B. Crosta and Feng Dai	Sichuan University
9	37	Numerical study on the buffering effect of gravel soil on rockfall impact	Weigang Shen, Tao Zhao, Feng Dai, Jiawen Zhou and Nuwen Xu	Sichuan University
10	38	Discrete element analyses of debris flow impact on slit dams	Sixia Gong, Tao Zhao, Feng Dai and Nuwen Xu	Sichuan University
11	49	Seismic Response Characteristics of Stabilizing Pile Based on Elastic-plastic Performance	Honglue Qu, Ying Liu, Yi Liu, Huanguo Hu and Qian Mei	Southwest Petroleum University
12	52	Consolidation effect of ultrafine cement grout on water-rich granular limestone under hydraulic pressure	Z.L. Zhou, H.Z. Zang, J. Zhang, D. Ma and X.M. Du	Central South University
13	56	Research on Deformation Law and Damage Mechanism of Surrounding Rocks around Fault in Cross - fault Tunnel	Chen Hai Liang, Gao Ming Zhong, Wang Wen Yong,	Sichuan University

## Theme 9: Civil geotechnical engineering



			Liu Oiana Lu Tana and	
			Liu Qiang, Lu Tong and	
			Peng Gao You	
14	61	Determination Method of Subgrade Compaction Scheme Based on Energy	Honglue Qu, Lipeng Hu, Lei Liu, Jinbo Mao and Yijie Liu	Southwest Petroleum University
		Name de la cincia de la constante de la consta	3	
15	69	Numerical simulation of seismic excitation induced loose material movements in mountainous gully	Ming Lei, Ze-Xing Xu, Tao Zhao and Xie-Kang Wang	Sichuan University
16	72	Experimental study on the global stability of the Xiaowan arch dam using a 3D geo-mechanical model test	Jianhua Dong, Lin Zhang, Baoquan Yang and Jianye Chen	Sichuan University
17	79	Modeling and evaluation of safety risk during earthquakedamaged slope construction	Ma Yong and Xing Huige	Sichuan University
18	86	Jet geometry effects on the velocity decay of an oblique submerged jet in a plunge pool	Naiwen Li, Jun Deng, Wensi Guo and Longguo Li	Sichuan University
19	87	An energy dissipation way in a high-dam to weaken atomization -jets non-collision energy dissipation	Longguo Li, Chao Liu, Jun Deng and Naiwen Li	Sichuan University
20	89	Research on Quantifying the Effect of Drag Force on the Continuous Fracture or Pipe	Xingyu Yuan, Wenxi Fu and Fei Ye	Sichuan University
21	90	Equivalent Mohr–Coulomb model for Hoek–Brown rock mass around deep-buried tunnel	Fei Ye, Yu-Feng Wei, Shaoping Yang, Xingyu Yuan, Ming Xia and Wenxi Fu	Sichuan University
22	93	Effect of deep unloading zone on working performance of arch dam and abutment: a case study in the Yebatan Hydropower Station	Wen Zhang, Yuan Chen, Lin Zhang, Bao-Quan Yang, Chong Zhang and Xiao-Qiang Liu	State Key Laboratory of Hydraulics and Mountain River Engineering
23	97	Energy Theory and Application of Rocks	Zhonghu Zhao	Lanzhou University
24	98	Determination of Rock Fracture Surface Energy	Zhonghu Zhao	Lanzhou University
25	112	Study of geo-mechanical characteristics and stability of half-tunnel at Dharapani along Besisahar - Chame road section, Manang	Prakash Luitel and Suman Panthee	Tribhuvan University

## Theme 9: Civil geotechnical engineering



26	135	A damage model applied to analysis of mechanical properties of discontinuous fractured rock masses	Wendong Yang, Rangang Yu, Ranjith Gamage, Guangyu Luo and Chenchen Huang	China University of Petroleum (East China)
27	142	Study on the anchorage depth of anti-sliding piles in steeply slipping colluvium landslides	Xianchun Ma, Li Shangguan and Yongwei Huang	Sichuan University
28	147	Experimental study on real-time compaction quality test indexes for coarse-grained soil in sand-gravel dam	Tianbo Hua, Xingguo Yang and Hongtao Li	Sichuan University
29	155	Monitoring and early warning of rainfall induced soil slope failure using elastic wave velocity	Yulong Chen and Taro Uchimura	Tsinghua University
30	156	A Review of Research on Dynamic Interaction between Soil and Buried Pipeline under Earthquake	Honglue Qu, Yi Liu, Ying Wu, Qindi Hu and Hanbin Zhao	Southwest Petroleum University
31	157	Study on Cracking Control for Baihetan Arch Dam Gallery	Zeyu Ning, Peng Lin, Jie Shi and Wenfu Chen	Tsinghua University