International Symposium on Seismic Performance and Design of Slopes

Tongji University, Shanghai China 17th-19th August 2018

PROGRAM



Hosted by



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Saturday, 18th August 2018

Opening Ceremony and Keynote Lectures (Room C201, Sino-French Center of Tongji University)

8:20~8:40 Open Ceremony (Chaired by Prof. Yu Huang)

9:00~10:10 Keynote Lecture (Chaired by Prof. Fawu Wang & Prof. Xinli Hu)

• Seismic disruption of mountain slopes and disaster mitigation (35 Mins)

Prof. Ikuo Towhata Kanto Gakuin University, Japan

Slope response of seismic motion based on field monitoring and shake table test (35 Mins)
 Prof. Qiang Xu Chengdu University of Technology, China

1101. Qiang Au Chengua Chiversity of Technology, China

10:30~12:15 Keynote Lecture (Chaired by Prof. Wanghua Sui & Prof. Guangqi Chen)

• A Lagrangian Gradient Smoothing Method (L-GSM) for earthquake-induced landslides simulation (35 Mins)

Prof. Guirong Liu University of Cincinnati, USA

• Recent landslides triggered by moderate earthquakes in Japan (35 Mins)

Prof. Fawu Wang Shimane University, Japan

• Performance-based seismic design of buildings in mainland China (35 Mins)

Prof. Huanjun Jiang Tongji University, China

14:00~15:45 Keynote Lecture (Chaired by Prof. Chih-Wei Lu & Prof. Chun Liu)

• Deformation characteristics of Majiagou landslide by in-situ monitoring (35 Mins)

Prof. Xinli Hu China University of Geosciences (Wuhan), China

• Effect of the post-cyclic hardening response of liquefied soil on the seismic stability of slopes (35 Mins)

<u>Dr. Domenico Lombardi</u> University of Manchester, UK

 Insight into the complex debris morphologies of the Luanshibao deposit in Tibetan Plateau , China (35 Mins)

Prof. Qiangong Cheng Southwest Jiaotong University, China

16:00~18:00 Parallel Sessions

Time	Room C201, Sino-French Center of Tongji University Chair: Domenico Lombardi & Miao Yu	Room A401, Sino-French Center of Tongji University Chair: Shuji Moriguchi & Ping Yang
16:00~16:30	Dynamic response of a rigid barrier under impact of debris flows with various solid fraction (Invited) Dongri Song Institute of Mountain Hazards and Environment, CAS, China	Performance-based multi-objective optimization for design of stabilizing piles embedded in flysh (Invited) Changdong Li China University of Geosciences (Wuhan), China
16:30~17:00	An early warning monitoring of earthquake- induced slope failures by monitoring inclination changes in multi-point tilt sensors (Invited) <i>Lin Wang</i> <i>Chuo Kaihatsu Corporation, Japan</i>	Developing large scale simulations for slope stability analysis based on FDPS (Invited) Jian Chen RIKEN Center for Computational Science, Japan
17:00~17:20	A note on the time-dependent reliability analysis of slopes Min Xiong Tongji University, China	Insight into the normal stress-dependent frictional weakening of large rock avalanche basal facies Yufeng Wang Southwest Jiaotong University, China
17:20~17:40	Numerical study of seismic landslide dam failure and resulted flooding Yunxu Xie Institute of Mountain Hazards and Environment, CAS, China	Seismic behaviors of rock slopes with different lithology and structures in a shaking table test Hanxiang Liu Chengdu University of Technology, China
17:40~18:00	Stability analysis of soil slope based on a water- soil-coupled and parallelized Smoothed Particle Hydrodynamics model Weijie Zhang Hohai University, China	A preliminary experimental study on overtopping breaching of landslide dam Mingjun Zhou Institute of Mountain Hazards and Environment, CAS, China

Sunday, 19th August 2018

Keynote Lectures (Room C201, Sino-French Center of Tongji University)

8:30~9:40 Keynote Lecture (Chaired by Prof. Guirong Liu & Prof. Changdong Li)

• Finite element analysis on slope failure within unsaturated ground in fully-coupled scheme of soil—water-air (35 Mins)

Prof. Feng Zhang Nagoya Institute of Technology, Japan

• A preliminary prediction method of landslide motion velocity using basic mathematics and data from seismic stations (35 Mins)

Prof. Chih-Wei Lu National Kaohsiung University of Science and Technology, China

10:00~11:45 Keynote Lecture (Chaired by Prof. Ikuo Towhata & Prof. Feng Zhang)

Pulse-like ground motions vs peak ground acceleration on the initiation of co-seismic landslides (35 Mins)

Prof. Guangqi Chen Kyushu University, Japan

- Effects of spatial distributions of slope in DEM rockfall simulations (35 Mins)
 - Prof. Shuji Moriguchi Tohoku University, Japan
- Stochastic simulation and dynamic reliability analysis of earth structures (35 Mins)
 Prof. Yu Huang Tongji University, China

14:00~16:00 Parallel Sessions

Time	Room C201, Sino-French Center of Tongji	Room A401, Sino-French Center of Tongji
	University	University
	Chair: Shuai Zhang & Weijie Zhang	Chair: Jing Ni & Wuwei Mao
14:00~14:30	Performance monitoring of slopes using	Experimental and numerical study of the
	distributed fiber optic sensors (Invited)	mechanical properties of granite after high
	Honghu Zhu	temperature exposure (Invited)
	Nanjing University, China	Youliang Chen
		University of Shanghai for Science and
		Technology, China
14:30~15:00	Shaking table tests on reinforced segmental	Automatic mapping of slope failures after the
	retaining walls subjected to rainfall-earthquake	Jiuzhaigou earthquake (Invited)
	combined effect (Invited)	Ping Lu
	Feifan Ren	Tongji University, China
	Tongji University, China	
	Correction of Newmark model and a method	Numerical simulation on the stability of railway
15:00~15:20	of risk zoning for earthquake triggered	embankment subjected to repeated drying-wetting
	landslide	loops and train loads
	Kaiping Jin	Yi Xie
	Shanghai Jiao Tong University, China	Shanghai Jiao Tong University, China
15:20~15:40	Winkler model for seismic response of shafts	Parameter optimization design of double-row
	under stochastic earthquakes	piles with anchor cable structure for a permanent
	Bu Zhang	high slope under complicated geological
	Tongji University, China	conditions
		Chengtang Wang
		Institute of Rock and Soil Mechanics, CAS, China
15:40~16:00	The simulation of the stochastic slip	Reliability evaluation of slope failure under
	distribution of earthquake rupture	seismic loading based on probability density
	Yi Zhong	evolution method
	Tongji University, China	Geye Li
		Tongji University, China

16:10 to 16:30 Closing Ceremony (Room C201, Sino-French Center of Tongji University)