

The 20<sup>th</sup> Anniversary International Symposium on Geo-Disaster Reduction

20ISGdR

## General Schedule

DATE	TIME	LOCATION	PROGRAM
16 Aug.	13:00-17:00	The Kanazawa Chamber of Commerce and Industry	Registration
	15:00-17:00		ICGdR Annual Meeting
17 Aug.	08:30-17:20	The Kanazawa Chamber of Commerce and Industry	Registration
	09:00-09:40		Opening and Award Ceremony
	09:40-10:20		Keynote Lecture
	10:20-10:40		Coffee Break
	10:40-12:00		Invited Lecture 1,2
	12:00-12:20		Group Photo
	12:20-13:20		Lunch Time
	13:20-14:40		Session 1-A-1, Session 1-B-1
	14:40-15:00		Coffee Break
	15:00-16:00		Session 1-A-2, Session 1-B-2
	16:00-16:20		Coffee Break
	16:20-17:20		Session 1-A-3, Session 1-B-3
18 Aug.	08:30-17:30	The Kanazawa Chamber of Commerce and Industry	Registration
	09:00-10:20		Invited Lecture 3, 4
	10:20-10:40		Coffee Break
	10:40-12:00		Session 2-A-1, Session 2-B-1
	12:00-13:20		Lunch Time
	13:20-15:00		Session 2-A-2, Session 2-B-2
	15:00-15:20		Coffee Break
	15:20-16:40		Session 2-A-3, Session 2-B-3
	16:40-17:00		Coffee Break
	17:20-17:30		Closing Ceremony
19 Aug.	08:30-17:30	Hakusan Tedorigawa Geopark	Technical Tour

## August 17 (Wednesday)

<b>Opening Ceremony</b> (Conference Room A&B)	
Facilitator	<b>Toshiyuki TAKAHARA</b>
09:00-09:40	<b>Opening Speech</b> Prof. Masaho YOSHIDA
	<b>Activity Report of ISGdR</b> Prof. Fawu WANG
	<b>Introduction of the new ICGdR members</b> Prof. Tonglu LI
	<b>Award Ceremony</b> Prof. Emer. Masakatsu MIYAJIMA
<b>Keynote Lecture</b> (Conference Room A)	
Facilitator	<b>Masaho YOSHIDA</b>
09:40-10:20	<b>Prof. Emer. Masakatsu MIYAJIMA</b> (Kanazawa University) <i>Resilience of water pipelines and facilities against geo-hazards induced by earthquakes and heavy rains</i>
10:20-10:40	<b>Coffee Break</b>
<b>Invited Lecture 1, 2</b> (Conference Room A)	
Facilitator	<b>Masakatsu MIYAJIMA</b>
10:40-11:20	<b>Prof. Yusuke ONO</b> (Tottori University) <i>Numerical simulation of earthquake-induced slope failures using the SPH method</i>
11:20-12:00	<b>Dr. Ryoichi FURUTA</b> (Remote Sensing Technology Center of Japan) <i>Monitoring disasters and surveying damages using remote sensing technologies</i>
12:00-12:20	<b>Group Photo</b>
12:20-13:20	<b>Lunch Time</b>

	<b>Session 1-A-1</b> (Conference Room A)	<b>Session 1-B-1</b> (Conference Room B)
Chairperson	<b>Masakatsu MIYAJIMA</b>	<b>Yasuko KUWATA</b>
13:20-13:40	<b>Chenxing WANG</b> (Chang'an University) <i>Field monitoring of rainfall infiltration and the recession constant of antecedent precipitation in a residual soil slope</i>	<b>Zixin ZHAO</b> (Tongji University) <i>UAV-based semi-automatic rock discontinuity surface identification and information extraction</i>
13:40-14:00	<b>Jiayu CHEN</b> (Kanazawa University) <i>Experimental study on the mechanical properties of unsaturated Kanto loam</i>	<b>Deshun WU</b> (Tongji University) <i>Hybrid method for predicting metro-induced vibrations based on combined surface measurement and numerical simulation</i>
14:00-14:20	<b>Xuetong MA</b> (Chang'an University) <i>Experimental study on underwater accumulation form of loess bank slope</i>	<b>Hyukkee HONG</b> (Kansai University) <i>Effects of fan-shaped edge filter on soil embankment</i>
14:20-14:40	<b>Yulu LEI</b> (Chang'an University) <i>Study on prediction method of loess collapsibility in Longdong area</i>	<b>Zhao-dong LI</b> (Chang'an University) <i>Identification and assessment of geo-hazard risk in the typical Chinese loess region</i>
14:40-15:00	<b>Coffee Break</b>	
	<b>Session 1-A-2</b> (Conference Room A)	<b>Session 1-B-2</b> (Conference Room B)
Chairperson	<b>Toshikazu IKEMOTO</b>	<b>Masaho YOSHIDA</b>
15:00-15:20	<b>Lin ZHANG</b> (Chang'an University) <i>Prediction model of wetting-induced collapse of compacted loess with different initial void ratios and moisture contents</i>	<b>Qipeng LI</b> (Chang'an University) <i>Study on suitability of thick base material protection in ecological restoration of loess cutting high slope</i>
15:20-15:40	<b>Zhiyan ZHAO</b> (Chang'an University) <i>Research on saturated permeability characteristics of loess-paleosol sequence in Xianyang tableland</i>	<b>Tempa THINLEY</b> (Kanazawa Institute of Technology) <i>Geotechnical investigation and suitable countermeasures for mitigation of slope failure at Reotala in Bhutan</i>
15:40-16:00	<b>Haoyu DONG</b> (Northwest University) <i>Failure mechanism of sandy soil slope caused by water-vibration</i>	<b>Nao FUKUSHIGE</b> (Kanazawa University) <i>Optimization of ground reinforcement based on the lower bound limit analysis</i>
16:00-16:20	<b>Coffee Break</b>	

	<b>Session 1-A-3</b> (Conference Room A)	<b>Session 1-B-3</b> (Conference Room B)
Chairperson	<b>Shunichi KOBAYASHI</b>	<b>Toshiyuki TAKAHARA</b>
16:20-16:40	<b>Jiewei ZHAN</b> (Chang'an University) <i>Rockfall hazard assessment in the Taihang Grand Canyon scenic area integrating regional-scale identification of potential rockfall sources</i>	<b>Zhandong SU</b> (China Earthquake Administration) <i>Experiment study on the local stress field evolution characteristics of strike-slip faults with different strikes and its implications for fault activity</i>
16:40-17:00	<b>Ziran ZHANG</b> (Chang'an University) <i>Stability evolution of colluvial landslide during rainy season in the Yuanjiang dry-hot valley, Yunnan, China</i>	<b>Yue PAN</b> (Kobe University) <i>Impact of fault dislocation on buried pipeline-fault crossing angle</i>
17:00-17:20	<b>José Maria dos Santos RODRIGUES NETO</b> (Ehime University) <i>A comparison of frequency ratio and machine learning methods for landslide susceptibility assessment</i>	<b>Ryoya WATANABE</b> (Kanazawa University) <i>Experiments on liquefaction countermeasure method using crushed stone layers and geotextiles</i>

## August 18 (Thursday)

<b>Invited Lecture 3, 4</b> (Conference Room A)		
Facilitator	<b>Fawu WANG</b>	
09:00-09:40	<b>Prof. Maochao HE</b> (China University of Mining Technology) <i>Cross-fault measurement for earthquake prediction</i>	
09:40-10:20	<b>Prof. Tetsuo TOBITA</b> (Kansai University) <i>LEAP: International collaborative research project for centrifuge model testing and numerical analysis on dynamic behavior of saturated sloping sand deposit</i>	
10:20-10:40	<b>Coffee Break</b>	
	<b>Session 2-A-1</b> (Conference Room A)	<b>Session 2-B-1</b> (Conference Room B)
Chairperson	<b>Akira MURATA</b>	<b>Kenji KOSA</b>
10:40-11:00	<b>Bin ZHANG</b> (Chang'an University) <i>Control of slope morphology on water flow redistribution and its influence on slope failure pattern</i>	<b>Bidhya SUBEDI</b> (Kyoto University) <i>Estimation of S-wave velocity structure using microtremor observations and hydrogeological data for 3D finite difference simulations of ground motions in the Bangkok Basin, Thailand</i>
11:00-11:20	<b>Kai HAN</b> (Northwest University) <i>A shaking table test of instability sliding of loess landslide under the coupling effect of train vibration and rainfall</i>	<b>Xihan LI</b> (Kyoto University) <i>Development of prediction equation on long period ground motion for Bangkok earthquake early warning</i>
11:20-11:40	<b>Kongming YAN</b> (Tongji University) <i>Localized topographic effect on long-runout debris flows: A site investigation in Ganluo County, China</i>	<b>Shan LI</b> (Northwest University) <i>Effect of small vibration on disintegration characteristics and microstructure of loess</i>
11:40-12:00	<b>Yuta MATSUURA</b> (Tottori University) <i>Capture Effect by flat ground on slope failure debris —A study using distinct element analysis</i>	<b>Zejun LUO</b> (Tongji University) <i>Study on constitutive model of shear creep of rock mass discontinuities considering damage mechanics</i>
12:00-13:20	<b>Lunch Time</b>	

	<b>Session 2-A-2</b> (Conference Room A)	<b>Session 2-B-2</b> (Conference Room B)
Chairperson	<b>Toshiyuki TAKAHARA</b>	<b>Michihiro OHORI</b>
13:20-13:40	<b>Ye CHEN</b> (Tongji University) <i>Numerical trough model tests of submarine landslide by CFD-DEM coupling method</i>	<b>Changcheng DU</b> (Tongji University) <i>Stability analysis of slopes stabilized with piles and anchor cables under seismic action</i>
13:40-14:00	<b>Zimeng GAO</b> (Kanazawa University) <i>Rigid plastic finite element analysis of a slope stability problem including tensile stresses</i>	<b>Fei ZHAO</b> (Tongji University) <i>Research progress on seismic energy-dissipative anchors</i>
14:00-14:20	<b>Tao QIN</b> (Chang'an University) <i>Loess high -slope parameter model and stable coefficient finite element calculation program implementation</i>	<b>Kenji KOSA</b> (Kyushu Institute of Technology) <i>Failure mechanism of the Furo Daiichi Bridge in the 2016 Kumamoto earthquake</i>
14:20-14:40	<b>Bo ZHANG</b> (Tongji University) <i>Motion mechanism analysis of rainfall-induced landslides based on Wang-Sassa model</i>	<b>Takao HASHIMOTO</b> (Kokushikan University) <i>Analysis of Kumamoto castle stone wall damage factors using dynamic FEM in the 2016 Kumamoto earthquake</i>
14:40-15:00	<b>Liu YINPENG</b> (Chang'an University) <i>Failure mechanism and transformation process of the rockslide-debris flow: an analysis on the Shanyang landslide in China</i>	<b>Xiaolei LIU</b> (Ocean University of China) <i>Geotechnical properties of the sliding zone related to wave-induced liquefaction in the Yellow River Subaqueous delta</i>
15:00-15:20	<b>Coffee Break</b>	
	<b>Session 2-A-3</b> (Conference Room A)	<b>Session 2-B-3</b> (Conference Room B)
Chairperson	<b>Masakatsu MIYAJIMA</b>	<b>Toshikazu IKEMOTO</b>
15:20-15:40	<b>Tonglu LI</b> (Chang'an University) <i>Geo-disaster mitigation with urban development in the northern Chinese loess region</i>	<b>Kounghoon NAM</b> (Tongji University) <i>Insight into Tonga submarine volcanic eruption on 15 January 2022</i>
15:40-16:00	<b>Daichi INAMI</b> (National Institute of Technology, Fukui College) <i>Development of a planning support system for citizen participation using mixed reality</i>	<b>ShuoZhe ZHANG</b> (Chang'an University) <i>Study on shear strength parameters of L2 loess in different positive stress ranges</i>

16:00-16:20	<b>Koki KADOYA</b> (National Institute of Technology, Fukui College) <i>The evaluation of experience-based Tsunami drills using a mixed reality</i>	<b>Kotaro TAKAYAMA</b> (National Institute of Technology, Fukui College) <i>Experimental study on the health problems that tilted houses caused by liquefaction</i>
16:20-16:40	<b>Michihiro OHORI</b> (University of Fukui) <i>Tsunami inundation simulation for the Sonobe area of Takahama town in Fukui prefecture</i>	<b>Takumi MURATA</b> (Tobishima Corporation) <i>Vertical displacement of sandy soil by inserting logs</i>
16:40-17:00	<b>Coffee Break</b>	
	<b>Closing Ceremony</b> (Conference Room A)	
Facilitator	<b>Toshiyuki TAKAHARA</b>	
17:00-17:30	<b>Introduction of the next symposium</b> Prof. Yu HUANG	
	<b>Award ceremony of excellent presentation</b> Prof. Masaho YOSHIDA	
	<b>Closing speech</b> Prof. Emer. Masakatsu MIYAJIMA	