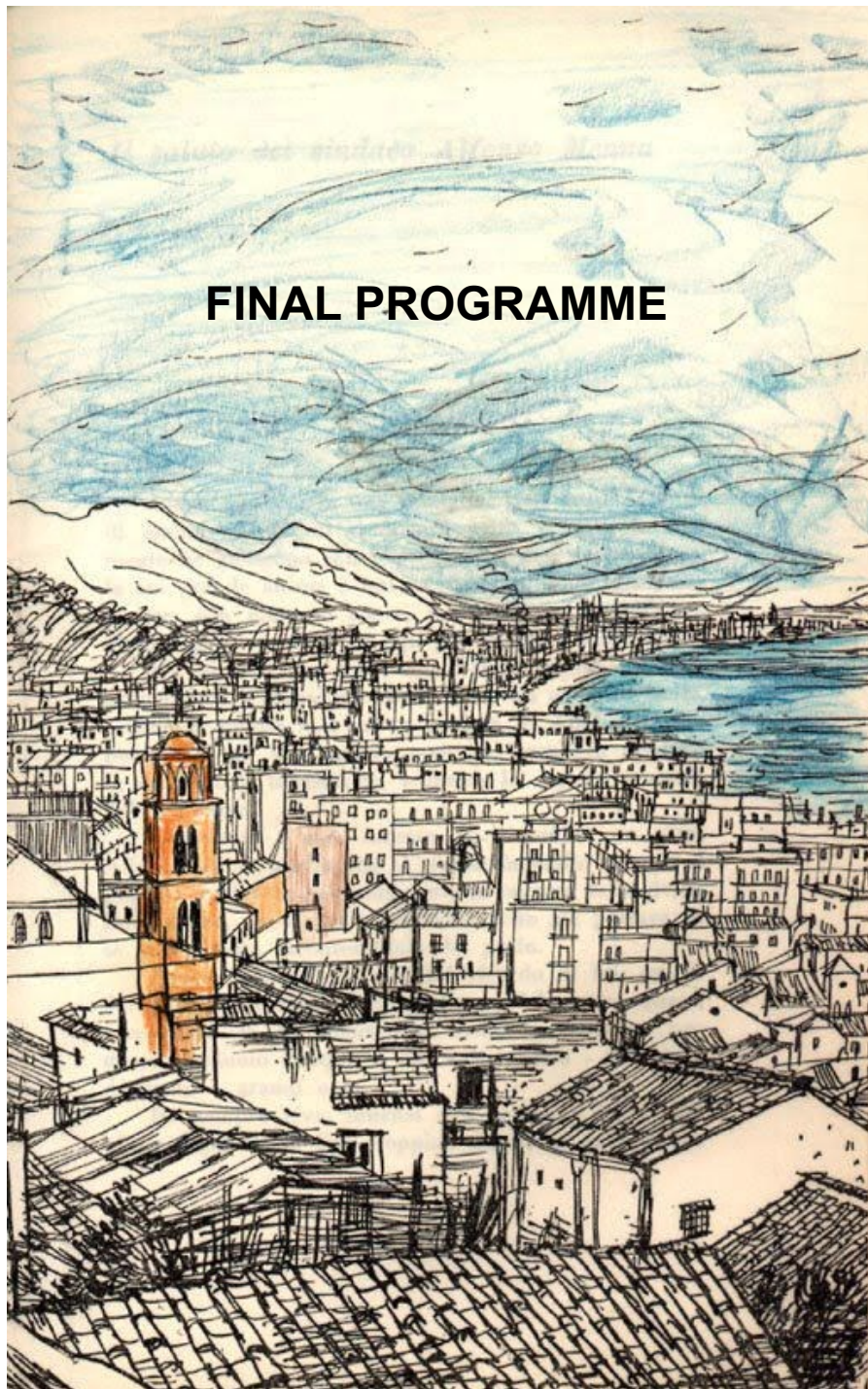


The 22nd International Symposium on Geo-disaster Reduction
22 - 25 July 2024, Salerno, Italy



Topics:

1. Landslide risk
2. Geo-disasters caused by earthquake
3. Geo-disasters under climate change
4. Geo-disasters related to volcanism
5. Geo-disasters related to human activities
6. Tsunami
7. Geosynthetics and other solutions for mitigation
8. Early warning for disaster monitoring

Scale: about 150 on-site participants

Dates: 22 - 25 July 2024

Registration and ICGdR meetings: 22 July 2024

Presentations: 23 - 24 July 2024

Field trip: 25 July 2024

In collaboration with:

- LARAM School, <http://www.laram.unisa.it>
- PlaNet Project, <https://prod.planetnetwork.eu/>

with the support of:

- IAEG (International Association for Engineering Geology and the Environment), <https://iaeg.info/>
- IGS (International Geosynthetics Society), www.geosyntheticssociety.org
- INGV (Istituto Nazionale di Geofisica e Vulcanologia), www.ingv.it
- IAEG-Italy (Italian Chapter of IAEG), <https://www.iaeg.it/>
- IGS-Italy (Italian Chapter of IGS), [link](#)
- AGI (Associazione Geotecnica Italiana), www.associazionegeotecnica.it
- CNR-IRPI (National Research Council, Institute for Geo-Hydrological Protection), [link](#)
- CNR-ISMAR (National Research Council, Institute of Marine Sciences), [link](#)
- CUGRI (InterUniversity Centre for the Prediction and Prevention of Major Hazards), www.cugri.it
- ASSINGEO (Associazione Imprese Nazionali Geosintetici), www.assingeo.it
- CARDINE srl - Impresa di costruzioni, <https://cardinesrl.it/>
- GEOSTRU software, www.geostru.eu/en/

Venue

Salerno city center



Palazzo della Provincia, via Roma 104, Salerno

<https://goo.gl/maps/rzCAQprUGSVNmFJ7>



Important dates:

- Abstract (1 page) due: **15 April 2024**
- Acceptance of the abstract: **30 April 2024**
- Full paper (6 pages) due: **15 May 2024**
- Review comments to authors: **22 May 2024**
- Final camera-ready paper due: **30 May 2024**
- Early-bird registration: **30 May 2024**

Accommodations (on a walking distance from the venue)

- Grand Hotel (4-star hotel)
- Plaza Hotel (3-star hotel)
- Bruman Hotel (3-star hotel)
- Montestella Hotel (3-star hotel)
- Bed and Brekfast (on the principal reservation web plafforms)

Organizers and Co-Organizers

Organizers:

- University of Salerno, Italy
- Tongji University, Shanghai, China
- International Consortium on Geo-disaster Reduction

Co-organizers:

- Beijing University of Technology, China
- Chang'an University, China
- Chengdu University of Technology, China
- China Geological Survey
- China Institute of Disaster Prevention
- China Three Gorges University
- China University of Geosciences (Wuhan)
- Chinese Society for Rock Mechanics and Engineering (CSRME)
- Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
- Dalian University of Technology, China
- Guangdong Academy of Sciences, China
- Hebei University of Engineering, China
- Huazhong University of Science and Technology, China
- IMWA China National Commission (IMWA-CNC)
- Institute of Cold Region Science and Engineering, Northeast Forestry University, China
- Institute of Engineering Mechanics, China Earthquake Administration
- Institute of Geographic Sciences and Natural Resources Research (IGSNRR), Chinese Academy of Sciences
- Institute of Geology and Geophysics, Chinese Academy of Sciences
- Institute of Geology, China Earthquake Administration
- Institute of Geomechanics, Chinese Academy of Geological Sciences
- Institute of Mountain Hazards and Environment, Chinese Academy of Sciences
- Institute of Rock and Soil Mechanics, Chinese Academy of Sciences
- Jilin University, China
- Kunming University of Science and Technology, China
- Liaoning Investigation Institute of Hydrogeology and Engineering Geology,

China

- Nanjing University, China
- National Institute of Natural Hazards, Ministry of Emergency Management of China
- Ocean University of China
- Qingdao University of Technology, China
- Qinghai Normal University, China
- Shanghai Jiao Tong University, China
- Sichuan University, China
- Southeast University, China
- Southwest Jiaotong University, China
- Taiwan University in Chinese Taipei
- Taiyuan University of Technology, China
- Tsinghua University, China
- Zhejiang University, China

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- Chaosheng TANG (Nanjing University, China)
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 - Jie ZHANG (Tongji University, China)
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 - Honghu ZHU (Nanjing University, China)

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Administration)

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3. Organizing Committee

Chairs:

Sabatino CUOMO (University of Salerno, Italy)

Fawu WANG (Tongji University, China)

General Secretary:

Mariagiovanna MOSCARIELLO (University of Salerno, Italy)

22 July			
11:00	120 min	Registration	
13:30	120 min	ICGdR Annual Meeting	
15:30	60 min	Registration	
16:30	end		
23 July			
8:00	60 min	Registration	
9:00	50 min	Opening of the 22ISGdR and ICGdR Awards	
9:50	40 min	KL1: Cascini L. (LARAM School) Analysis and management of geo-hazards through integrated approaches	
10:30	20 min	Coffee Break	
10:50	90 min	Session 1 (room A)	
		ID	Chair: Cuomo S. (Salerno, Italy)
	30 min	007 IL: Marinos V. (IAEG)	Employing comprehensive engineering geological models in assessing rock slope behavior modes and geotechnical engineering design
	15 min	155 IP: Di Vito (INGV)	The Vesuvian Observatory: monitoring and activities
	15 min	111 IP: Duro A. (Civil Protection, Italy)	Coping with floods and landslides: the May 2023 Emilia-Romagna hydrogeological events and the forecasting and post-event assessment
	15 min	021 IP: Spizzichino (Geol. Survey, Italy)	ReNDiS system: The WebGIS tool to support the governance on landslide risk reduction
	15 min	022 IP: Cagelli (Net.pro, Italy)	Civil Protection Technical volunteering: a fundamental contribution to reduce the emergency cost and lessons learned
10:50	90 min	Session 1 (room B)	
		ID	Chair: Valentino R. (Parma, Italy)
	15 min	026 Nicodemo G. (Salerno, Italy)	An integrated multi-source data analysis for slow-moving landslide risk assessment on the exposed built-up environment
	15 min	039 Gong B. (London, UK)	Multiscale simulation of progressive landslides by the adaptive RDFA method
	15 min	040 Gu K. (Nanjing, China)	Characterization of Groundwater Flow Using Actively Heated Fiber Optics Based Thermal Response Test
	15 min	050 Li P. (Sanhe, China)	Remote Sensing Image Recognition of Loess Earthquake
	15 min	037 Durante M.G. (Cosenza, Italy)	Physics-based artificial intelligence regional-scale models for the prediction of liquefaction-induced lateral spreading
	15 min	029 Casablanca O. (Messina, Italy)	Seismic performance of earth dams: field data and numerical predictions
12:20	10 min	Group Photo	
12:30	60 min	Lunch Time	
13:30	30 min	KL2: Fathani T.F. (Java, Indonesia) 2018 Central Sulawesi Earthquake and Tsunami: Toward the Reconstruction and Recovery	
14:00	90 min	Session 2 (room A)	
		ID	Chair: Wang F. (Shanghai, China)
	25 min	062 IL: Miyajima M. (Kanazawa, Japan)	Liquefied Ground Flow in Uchinada Town induced by the 2024 Noto Peninsula Earthquake, Japan
	25 min	011 IL: Choi C. (Hong Kong, China)	Simulating the Ability of Forests as Nature-Based Solutions for Geohazards: MPM-LSDEM
	15 min	106 IP: Petrosino P. (Napoli, Italy)	Volcanic hazard assessment in the complex multisource Neapolitan area
	15 min	094 Zhang S. (Beijing, China)	Catastrophic flow-like loess landslides in Northwest China
	15 min	074 Tian Z. Y. (Qingdao, China)	Microseismic observation of seabed geological processes : Internal waves intensify seabed methane release
14:00	90 min	Session 2 (room B)	
		ID	Chair: Nicodemo (Salerno, Italy)
	15 min	032 Chen Y. (Sanhe, China)	Study on attenuation relationship of earthquake response spectrum in the loess region of China
	15 min	038 Feng Y. (Shanghai, Italy)	Initiation and long-runout motion mechanism of an earthquake induced loess landslide
	15 min	079 Wang X. (Chengdu, China)	Earthquake-triggered landslide mapping based on remote sensing change detection
	15 min	100 Zimmaro P. (Cosenza, Italy)	Seismic and multi-hazard system reliability of distributed geotechnical infrastructure systems
	15 min	035 Dai G.L. (Nanjing, China)	Seismic Displacement Analysis of Slope Reinforced by Frame Prestressed Anchor Rod Structure
	15 min	025 Sarno L. (Salerno, Italy)	Experimental and numerical studies on granular flows
15:30	20 min	Coffee Break	

15:50	30 min	KL3: Jaboyedoff M. (Lausanne, Switzerland) From Susceptibility to Risk Assessment of Geohazard
16:20	100 min	Session 3 (room A)
		ID Chair: Ferlisi S. (Salerno, Italy)
15 min	102	IP: Corbelli V. (River Basin Auth. DAM, Italy) Managing multihazard risk(s) over a large area: the best practices of the River Basin District Authority of the Southern Apennines, Italy
15 min	103	IP: Capasso G. (River Basin Auth. DAM, Italy) Relevance of the participatory processes in landslide risk management: experience from Southern Italy
15 min	105	IP: Vitone C. (Bari, Italy) From characterisation to sustainable fate for sediments: lessons learnt from a complex marine site in Italy
15 min	104	Cuomo S. (Salerno, Italy) From practice to theory: the multihazard case study of Casamicciola Ischia, Italy
15 min	113	Wang F. (Shanghai, China) Typical Geo-disasters Caused by Heavy Rainfall in Zhejiang Province, China in Recent Years
16:20	90 min	Session 3 (room B)
		ID Chair: Qi S. (Beijing, China)
25 min	017	IL: Peranic J. (Rijeka, Croatia) Hydraulic characterization of soil through physical slope modelling tests
15 min	031	Tursi M. (Napoli, Italy) Coastal hazard in tuffaceous coastal cliff: The case of Miseno rockslide (Gulf of Naples)
15 min	030	Di Leo A. (Salerno, Italy) "Early Warning" System for Risk Prevention From Extreme Storms
15 min	055	Liu X.L. (Qingdao, China) Experimental study on turbidity currents transporting microplastics in submarine canyon topographies
15 min	057	Lyu Q. (Hangzhou, China) Investigation of the Fuyang shallow landslides triggered by an extreme rainstorm on 22 July 2023 in Zhejiang, China
15 min	058	Ma H. (Shanghai, China) Clustering mechanisms of landslides triggered by the rainstorm of July 2023 in Beijing, China
19:30		Social Dinner
24 July		
8:30	30 min	Registration
9:00	30 min	KL4: He M.C. (Beijing, China) Accurate Prediction of Landslide
9:30	70 min	Session 4 (room A)
		ID Chair: Petrosino P. (Naples, Italy)
25 min	012	IL: Catani F. (Padova, Italy) Lifting the curse of data contamination in landslide hazard models: towards self-improving inventories
15 min	019	IP: Matano F. (CNR, Italy) A first review of coastal hazards in the active volcanic caldera of Campi Flegrei, Italy
15 min	087	Wu S.W. (Taichung, Taiwan) Estimation of sediment yield in Wushe Reservoir by conceptual model combined with environmental indicators
15 min	028	Fraccica A. (Geol. Survey, Italy) The use of soil bio-engineering techniques for landslide risk mitigation in Italy: statistics from ReNDiS database
9:30	70 min	Session 4 (room B)
		ID Chair: Pirulli M. (Torino, Italy)
25 min	013	IL: Tofani V. (Firenze, Italy) Modelling the occurrence of landslides at regional scale under a changing climate
15 min	027	Pecoraro G. (Salerno, Italy) Enhancing the performance of regional warning models for landslides using local monitoring data
15 min	098	Zheng B.W. (Beijing, China) Research on engineering geological zoning and evaluation of plateau mountains traffic corridors
15 min	092	Yue P. (Kobe, Japan) Response of fault-crossing pipelines considering the directionality of subgrade reaction
10:40	20 min	Coffee Break
11:00	30 min	KL5: Yoshida M. (Fukui, Japan) Contribution to Global Warming Countermeasures via Use of Wood for Ground Reinforcement
11:30	70 min	Session 5 (room A)
		ID Chair: Matano F. (CNR, Italy)
25 min	009	IL: Pirulli M. (Torino, Italy) Multiscale modeling of multiphase flow interaction with mitigation structures
15 min	080	Wang T. (Beijing, China) Characteristics, Mechanism and Susceptibility of Seismic Landslides Induced by the Gulang M8.0 Earthquake of 1927, China
15 min	065	Nian T.K. (Dalian, China) Fluid-solid coupling simulation of landslide disaster chain and its application
15 min	069	Song K. (Yichang, China) Runout process and failure mechanism of the Shaziba landslide in Enshi, China
11:30	70 min	Session 5 (room B)
		ID Chair: Pecoraro G. (Salerno, Italy)

	25 min	015	IL: Martinelli M. (Delft, Netherlands)	Advances in Geotechnical Characterization and Failure Analysis through MPM Simulations
	15 min	047	Li B. (Shanghai, Cina)	3D improved bond–base Smooth Particle Hydrodynamics method for modeling large-scale rockslide considering the cracking and contact behavior
	15 min	086	Wu H. (Nanjing, China)	Hybrid MPM+SPH analysis of Wangjishan landslide-induced wave in Baihetan Reservoir, China
	15 min	075	Valentino R. (Parma, Italy)	Modeling the vegetation effect on shallow landslides' initiation using CRITERIA-1D
12:40	80 min		Lunch Time	
14:00	30 min		KL6: Winter M. (Kirknewton, UK) Debris Flow and Road Infrastructure Vulnerability, Risk and Resilience	
14:30	70 min		Session 6 (room A)	
		ID	Chair: Tofani V. (Florence, Italy)	
	25 min	036	IL: Dai F.C. (Beijing, China)	Strength behavior of red clay in the Qinghai-Tibetan Plateau considering climate warming
	15 min	020	IP: Esposito G. (CNR, Italy)	Post-fire debris flows: an emerging disasters chain
	15 min	024	IP: Petti L. (Salerno, Italy)	Opportunities and challenges for the monitoring of complex archaeological sites: the Pompeii case study
	15 min	073	Tian Y.Y. (Beijing, China)	Landslides triggered by the 18 December 2023 Ms 6.2 Jishishan earthquake, Gansu Province, China: A field reconnaissance
14:30	70 min		Session 6 (room B)	
		ID	Chair: Peranic J. (Rijeka, Croatia)	
	25 min	014	IL: Qi S. (Beijing, China)	Dynamic Behavior of Rock Mass and Progressive Failure of Rock Slope under Strong Earthquakes
	15 min	076	IP: Viccione G. (Salerno, Italy)	Investigation on dynamic impacts of fluid-driven debris cascade on elastic structures via high-fidelity multi-physics tools
	15 min	041	Guo F. (Yichang, China)	Study on Deformation Mechanism and Warning Model of Step-like Landslide in Three Gorges Reservoir Area
	15 min	108	Peng M. (Shanghai, China)	Simulation of landslide dam breach using a 3D-SPH approach
15:40	20 min		Coffee Break	
16:00	60 min		Session 7 (room A)	
		ID	Chair: Moscariello (Salerno, Italy)	
	15 min	048	Li X. B. (Sanhe, China)	Effects of typical loess landslides induced by the 1920 Haiyuan earthquake in China
			Short Presentations	
		018	Bhowmik R. (Jammu, India)	Improving Rockfall Safety Measures: Analyzing the Role of Compressible Cushion Layers in Rock-Shed Tunnel
		156	Ciaglia R. (Salerno, Italy)	Experimental evidence of fine long rooted grass grown in pyroclastic soils involved in debris avalanches
		116	Guo Y. (Lanzhou, China)	Movement process, dynamic characteristics and engineering countermeasures of landslides caused by permafrost thawing in Northeastern China
		046	Li J.B. (Lanzhou, China)	Field test study on the internal force distribution of prestressed anchor cable lattice beam on a high slope
		054	Liu J.M. (Beijing, China)	Probabilistic Seismic Landslide Hazard Zonation Based on Slope Units
		059	Mahmoudi E. (Delft, Netherlands)	Fully Probabilistic Analysis of Dikes Against Inner Slope Stability: A Practical Guide
		060	Meng H.J. (Beijing, China)	Rapid Identification of Rainfall-induced Shallow Landslides Based on Machine Learning
		063	Murata T. (Tokyo, Japan)	Estimation of Ultimate Bearing Capacity of Ground–Log Composite Ground
		070	Sun X.L. (Xi'an, China)	Particle flow simulation of rapid loess landslides with frontal plowing effect
		083	Wei L.D. (Xi'an, China)	Study On The Mechanism Of Water Potential Response of Loess And Plant Roots Improved by Water-retention Agents
		088	Xia C.Z. (Shanghai, Cina)	An improved meshless method for simulating Baige landslide event considering fluid-solid interaction
		099	Zhu M.Y. (Shanghai, Cina)	Study on the initiation of liquefaction of loose systems under monotonic and cyclic loads with DEM
16:00	60 min		Session 7 (room B)	
			Short Presentations	
		ID	Chair: Iannuzzi E. (Salerno, Italy)	
		033	Cheng Q. (Nanjing, China)	Deformation of unsaturated clayey soils under climatic influences
		034	Dai G.W. (Shanghai, China)	Microscopic Initiation of the Granular Columns Collapse
		043	Hu Y.X. (Shanghai, Cina)	Research on the impact of atmospheric pressure on the flow characteristics of geotechnical granular materials

	049	Li R. (Beijing, China)	Preliminary investigation on the failure mode and kinematic feature of the catastrophic Jiujiawan landslide occurred on Sept.2022 in Qinghai, NWChina
	064	NI A. (Beijing, China)	Harnessing elastic metasurfaces composed of in-filled pipes for surface wave attenuation in layered half-space
	115	Shan W. (Lanzhou, China)	Landslide susceptibility zonation in permafrost regions of Northeast China considering the influence of permafrost thaw
	068	Shao X.H. (Shanghai, Cina)	Towards collaborative investigations: a prototype of quadruped robot for sustainable and interactive landslide perception.
	110	Valletta A. (Parma, Italy)	Identifying critical landslide events: a novel approach based on equivalent displacements
	084	Wei S. C. (Taichung, Taiwan)	A Transformer-based slope stability agent model for shallow landslide forecast
	109	Yang S. (Wuhan, China)	Evaluation on the Rationality of Spatial Distribution of Landslide Susceptibility Assessment Results
	117	Zhang C. (Lanzhou, China)	Mapping and application of 30m resolution permafrost distribution in Northeast China from 2003 to 2021
	096	Zhang H. (Dalian, China)	The impact of horizontal well layout on the stability of submarine hydrate-bearing slope
	095	Zhang W.L. (Shanghai, Cina)	Study on the particle breakage of coral sand in the ring shear experiment
	101	Zou Y. (Beijing, China)	Factors Controlling the Spatial Distribution of Coseismic Landslides Triggered by Ludian Earthquake
17:00	30 min	Closing Ceremony	
17:30	30 min	Walking to Zaha Hadid Maritime Station	
18:00	30 min	Guided Visit to Zaha Hadid Maritime Station	
19:00	120 min	Live Concert and Farewall party	
21:00	end		

25 July		Technical Tour	
	7:30	departure from Salerno (venue of the symposium)	
	9:00	Vesuvian Observatory (volcanic risk)	
	11:30	Flegrei Fields (bradyseism risk)	
	12:30	Pizzeria	
	14:00	Pozzuoli town (earthquake risk)	
	17:00	Bus stop at Capodichino airport	
	18:00	Sarno (landslide risk)	
	19:00	arrival to Salerno	

KL: Keynote Lecture, IL: Invited Lecture, IP: Invited Presentation