

SEPT. 21-27, 2023  
CHENGDU, CHINA

# The XIV Congress of the International Association for Engineering Geology and the Environment



Session 8-10

## Navigating Natural Hazard Risk Assessment and Management: Compound, Consecutive, and Cascading Events

### Conveners



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The Hong Kong University of  
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### Brief Introduction of the Session:

Natural hazards such as earthquakes, landslides, flooding, volcanic eruptions and wildfires are a global concern that has the potential to cause significant damage to human lives and properties, infrastructure, natural resources, and cultural heritage. In recent years, climate change has led to more frequent natural hazards with escalating intensity, making risk assessment and management increasingly crucial to global disaster preparedness and mitigation strategies.

This session seeks to bring together experts from various disciplines, including but not limited to geotechnics, geology, engineering, social science and public policies, to discuss the recent advances, case studies, and emerging trends related to natural hazard risk assessment and management. This session particularly focuses on the compound, consecutive and cascading natural hazard events and their impacts. These events are caused by the interaction of multiple hazards, vulnerability and exposure drivers in space or time, and usually have an amplified effect on risks to society, infrastructure, and the environment. We aim to provide an opportunity for knowledge exchange and collaboration among all parties that are involved in natural hazard risk assessment and management, including researchers, practitioners, policymakers and other stakeholders. We encourage contributions that are related to all aspects of natural hazard risk assessment and management. This topic will discuss the following issues, but not limited to:

- Understanding the triggering mechanisms and the physical processes of compound, consecutive, and cascading natural hazard events
- New methodologies for multi-risk assessment, management, and impact analysis
- Data and emerging techniques like machine learning for natural hazard prediction, forecasting and risk reduction
- Improving disaster early warning, community preparedness and emergency response strategies
- Policies and regulations for better practices of multi-risk governance

Together, we can navigate the challenges posed by natural hazards and build more resilient communities and infrastructure.

## IMPORTANT DATES



Abstract for Oral Presentation and  
Poster Submission Deadline

**Jun. 30, 2023**



Early Bird Registration Deadline

**Aug. 10, 2023**



Online Registration Deadline

**Sept. 21, 2023**

### SUBMISSION

#### For the full-length submission

The submission system is now open for full-length papers. The deadline for submission of full-length paper has been extended to May 31, 2023. Please read the guidelines for paper submittal prior to submitting your full-length paper.

Please read the guidelines prior to submitting your full-length paper or long abstract at <https://www.iaeg2023.org/cfp.html>

#### For the abstract submission

The abstract submission system for oral presentations and posters is open! If you would rather prepare an abstract for an oral or poster presentation, rather than submitting a full paper, please submit your abstract for consideration by June 30, 2023.

Please read the guidelines prior to submitting your abstract at <https://www.iaeg2023.org/cfa.html>



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