

SEPT. 21-27, 2023  
CHENGDU, CHINA

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



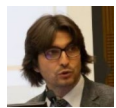
Session 12-6

## Intelligent Prediction and Risk Assessment of Geohazards with Multi-source Monitoring Data

### Conveners



**LEILEI LIU**  
Central South University



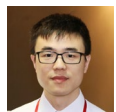
**Samuele Segoni**  
University of Firenze



**Zhongqiang Liu**  
Norwegian Geotechnical Institute



**Jun Hu**  
Central South University



**Tengyuan Zhao**  
Xi'an Jiaotong University



**Jinquan Liu**  
Macao University



**Ting Xiao**  
Central South University

### Brief Introduction of the Session:

With the rapid development of monitoring technologies, modern computer architecture, and artificial intelligence, geohazard prevention has entered a new era of digitalization and networking. The availability of diverse and voluminous data from various sources presents both opportunities and challenges for geological engineers and scientists. This session seeks to explore the potential value of AI-based methods and data fusion models for achieving intelligent prediction and quantified risk assessment of geohazards.

The session will focus on various research areas, including new monitoring technologies and methods, intelligent recognition and prediction methods, multi-source data fusion models, and quantified risk assessment based on monitoring data. The session aims to provide a platform for researchers to share their innovative approaches to address the challenges posed by geohazards. We welcome submissions of original researches and case studies that address the following topics:

- Development of new monitoring technologies and methods for geohazard detection and characterization
- Intelligent recognition and prediction methods that use AI-based techniques to interpret monitoring data and predict geohazard events
- Multi-source data fusion models that integrate data from different monitoring technologies to improve the accuracy of geohazard predictions
- Quantified risk assessment based on monitoring data, including the use of machine learning algorithms to identify and quantify risk factors associated with geohazard events

### 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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