SEPT. 21-27, 2023 CHENGDU, CHINA

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



Session 12-1

Mitigating Climate-Induced Geohazards in Vulnerable Hotspots

Conveners



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Brief Introduction of the Session:

Extreme rainfall from short cloudbursts to prolonged rainfall of several days to weeks is the most significant trigger of Geohazards; however, there remain large uncertainties in how climate change may affect Geohazards activity in the future. This proposed section, invite high-quality original works on the use of multi-remote sensing data and advanced technologies (such as artificial intelligence, machine learning, big data etc.) to investigate the Geohazards in changing climate in Asian continent. The aim is highlighting the rapidly changing climate and their influence in the sensitive Himalayas, Tibetan Plateau and Western Ghats Mountain ranges (not limited to) that integrates remote sensing data from satellite, and other platforms (UAV, aerial and ground based) engineering geological practices combing cut-edge techniques, such as, Al, machine learning, bit data, etc.

This topic will discuss the following issues, but not limited to:

- Rainfall-induced Geohazards susceptibility mapping
- · Geohazards early warning and forecasting
- Potential future exposure of the population to rainfall-induced Geohazards
- Changing the threshold for debris flow initiation
- Influence of climatic and geomorphic factors on Geohazards initiation
- Geohazards characteristics in a changing climate
- Assessing future changes in the occurrence of rainfall-induced Geohazards
- Rainfall-induced Geohazards in High Mountain Asia and Western Ghats
- Rapid mapping of Geohazards using comprehensive remote sensing images, such as InSAR,
 Lidar, optical images, etc.

IMPORITANT DATIES



Abstract for Oral Presentation and Poster Submission Deadline

Jun. 30, 2023



Aug. 10, 2023



Early Bird Registration Deadline



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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