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



Session 4-3

Advances in Geological Reinforcement Techniques

Conveners



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Brief Introduction of the Session:

Geological reinforcement is a very useful technique to construct several cost-effective soil structures in an environmentally-friendly and sustainable manner. The most commonly-used reinforcement materials are galvanized steel strips, geosynthetics in the form of woven geotextiles, geogrids and geocomposites, and fibers from natural and waste products. In recent years, there have been advances in the area of geological reinforcement, especially in the utilization of the technique in field projects. New advances also include efforts to understand the behavior of reinforced soil considering the field challenges of reinforced soil structures. This session welcomes new contributions on reinforced soil structures, mainly flexible pavements, footings, embankments, stone columns/piles, and slopes, as covered in the subject areas of geosynthetic engineering and fiber-reinforced soil engineering.

Further improving the support of science and technology for Geological reinforcement, reducing the risk of geological hazards is a typical complex engineering problem, and the geological conditions and disaster mechanism research is the most important basic work in hazards prevention and control. This topic will discuss the following issues, but not limited to:

- Principles and methods of geological reinforcement
- New developments of environment-friendly reinforcement materials
- Influences of meteorological and hydrological conditions on the sustainability of reinforced geological body
- Dynamic identification and risk evaluation of potential failure of reinforced geological bodies
- Microcosmic characterization of the reinforced geological body
- Long-term safety and environmental assessment of reinforcement under the influence of climate change and human activities

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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