

LANDSLIDE RISK ASSESSMENT AND MANAGEMENT FOR ARCH BRIDGES

ABSTRACT:

Geotechnical risks associated with landslides interacting with arch bridges is the focus of this session, aiming at innovative approaches to risk assessment, management, and mitigation.

Key topics include advanced monitoring systems, such as geotechnical instrumentation and remote sensing technologies, to detect early signs of structural instability or landslide-induced damage.

Inspection techniques, alert thresholds, and safety verification methodologies are also inside the session goals. Particular attention is paid to the identification of specific defects linked to landslide interactions and the implementation of effective mitigation measures for the safety assessment of bridge infrastructures.

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