

THEMED SESSION

Risk assessment and monitoring of masonry arch bridges exposed to natural disasters

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ORGANIZERS



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DESCRIPTION



Masonry arch bridges represent a critical component of historic transport infrastructure, yet their resilience to natural disasters—such as floods, earthquakes, and landslides—remains insufficiently understood. This mini-symposium brings together recent advances in the structural assessment, monitoring, and risk analysis of masonry arch bridges under extreme events. Contributions will explore novel modelling techniques, low-cost monitoring solutions, vulnerability assessment frameworks, and case studies demonstrating the integration of digital technologies and heritage conservation. The session aims to foster interdisciplinary collaboration to improve the long-term safety and sustainability of these ageing assets in the face of escalating climate-driven hazards.

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