

Arch bridges: from testing and monitoring to damage detection and assessment

ABSTRACT:

The Special Session is intended to focus on methodological aspects, recent developments and applications of testing, assessment and monitoring of arch bridges.

Suitable topics include (but are not limited to):

- Assessment procedures using model-based and data-driven approaches
- Advanced sensing techniques and inspection methods
- Simplified and advanced model updating techniques
- Design, implementation and management of monitoring systems
- Long-term Structural Health Monitoring (SHM) experiences
- Data normalization techniques to filter out environmental and operational effects
- Artificial Intelligence for data-driven Structural Health Monitoring
- Novelty detection and localization

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from preservation of historical legacy to new forms

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