

CASE STUDIES

ABSTRACT:

The session aims to highlight the main topics and issues encountered in the design and rehabilitation of arch bridges by presenting various interventions carried out in recent years in Italy and abroad.

The first topic is the rehabilitation of masonry and RC arch bridges, which represent a significant portion of the historical bridge stock. For this topic, papers regarding new technologies for the structural consolidation of these types of bridges with particular attention to reinforcement techniques and materials used to ensure the safety and durability of the intervention are requested.

Another topic to be addressed in the session is the design, construction, and launching of steel bow-string bridges (tied-arch bridge) in their various configurations. This type is increasingly used for new infrastructure due to their structural efficiency and the reduction of stresses transmitted to the foundations. Papers that illustrate the design criteria and construction methods adopted are welcome, with particular attention to launching systems that allow the assembly and positioning of the arch while minimizing interference with surrounding activities or traffic.

Ultimately, this session aims to open a technical comparison between the rehabilitation solutions of historic bridges and the realization of new structures, based on completed projects or those in an advanced stage of realization.

CHAIRS:

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