

# Preface

This volume is a collection of edited scientific papers presented at the International Conference on *Mechanics of Masonry Structures Strengthened with Composites Materials (MuRiCo7)* held online (November 24-26, 2021).

The previous Conferences, organised by AICO (Italian Association of Composites in Constructions, established in 1996), were held at the University IUAV of Venice (years 2000, 2004, 2009) and University of Bologna, a campus of Ravenna (2014) and a campus of Bologna (2017, 2019).

This International Conference, MuRiCo7, was organized by AICO under the patronage of DICAM Department of University of Bologna, DA Department of University of Bologna, and RILEM (International Union of Laboratories and Experts in Construction Materials, Systems and Structures).

The Conference represented a forum to promote and exchange the latest theoretical, computational, and experimental research works finalised to the design of structural strengthening of historic masonry constructions.

The MuRiCo7 covers a wide range of general topics:

- Mechanics of historical masonry: testing and modeling
- Performance of strengthened masonry with composites (FRP, FRCM, TRM, SRG)
- Performance in masonry/composites coupling: bond, special connections, fracture, fatigue, fire, durability
- Appropriate composites techniques evolution for historical construction strengthening
- First aid and provisional devices in historical structures with collapse risk after seismic shock
- Criticism on existing guidelines, standards, and praxis in masonry/composites coupling
- Sustainability, circular economy, life-cycle assessment, and recycling.

The Editors would like to thank the members of the Scientific Committee and the organizers of the special mini symposiums for their support that contributed to the success of the Conference. Furthermore, we express our gratitude to AICO, promoting and organizing the Conference.

The Editors

G. Castellazzi, C. Gentilini and A. Di Tommaso

ALMA MATER STUDIORUM University of Bologna, November 2021

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