



THE INTERNATIONAL CONFERENCE ON COMPUTATIONAL SCIENCE AND ITS APPLICATIONS

University of Minho, Braga, Portugal - June 30 - July 3, 2026



**Submit
your contribution
to**

ANAMS 2026

Key Dates

March 20, 2026

Abstract and paper submission

April 20, 2026

Notification of Acceptance

May 8, 2026

Final version of Proceeding Paper

**Accepted papers
published and
indexed in
SCOPUS**

**Lecture Notes in
Computer Science**

LNCS

LNAI

LNBI

Advanced Numerical Approaches for assessment and design of no-tension Masonry Structures



Antonino Iannuzzo

Università degli Studi del Sannio, Italy

Natalia Pingaro

European Centre for Training and Research in Earthquake Engineering, Eucentre, Italy

Andrea Montanino

International Centre for Numerical Methods in Engineering, Spain

Elham Mousavian

The university of Edinburgh, United Kingdom

Stefano Galassi

University of Florence, Italy

Topic

Masonry structures are a fundamental component of the world's built heritage and infrastructure, with numerous examples of inestimable historical value. Masonry construction is one of the oldest and most sustainable techniques, and its traces are widespread everywhere: from historical centres to places of worship, through archaeological structures and masonry bridges still in use as infrastructure. These works not only bear witness to our cultural roots but also play a significant role in the economy, particularly in the tourism sector. Furthermore, in many emerging economies with strong housing demand, we are witnessing a rediscovery of traditional masonry construction techniques and principles, which are now being applied to new residential solutions that utilise local materials and promote sustainability.

Protecting these structures requires continuous development of numerical techniques and innovative computational approaches, which allow accurate assessments, designs and effective intervention strategies while avoiding unnecessary ones. Therefore, the main objective of this workshop is to collect contributions on advanced models and computational strategies for the assessment, conservation, and valorisation of masonry structures, as well as the design of new ones.

We invite submissions exploring the latest developments in numerical modelling, computational methods and practical applications to significant case studies. Contributions of interest include, but are not limited to:

- methods addressing the behaviour of unilateral structures;
- soil-structure interaction;
- analytical and computational approaches for stability assessment;
- limit analysis approaches;
- damage assessment related to foundation settlements and overloading;
- computational strategies for retrofitting interventions;
- advances in modelling mechanical response;
- solutions to inverse problems for identifying structural damage causes;
- machine learning approaches for damage detection and predictive modelling.