

Special issue on SAHC 2016 Conference

Title: "Selected Papers from the 10th International Conference on Structural Analysis of Historical Constructions (SAHC 2016)"

The 10th International Conference on Structural Analysis of Historical Constructions was celebrated in Leuven, Belgium, during September 13–15, 2016, under the main topic "Anamnesis, Diagnosis, Therapy, Controls", which emphasizes the importance of all steps of a restoration process in order to obtain a thorough understanding of the structural behavior of built cultural heritage. The conference has been organized since 1995 with previous editions having taken place in Barcelona (Spain), Guimarães (Portugal), Padua (Italy), New Delhi (India), Bath (UK), Shanghai (China), Wrocław (Poland) and Mexico-City (Mexico). The conference aims at creating an opportunity for the dissemination of state-of-art contributions on the study of historical structures among experts, authorities, and people interested in heritage buildings.

In this edition, six topics received particular attention "Innovation and heritage", "Preventive conservation", "Computational strategies", "Sustainable strengthening of masonry with composites", "Values and sustainability" and "Subsoil interaction". Other topics of the conference were "Traditional and innovative construction materials and techniques", "Non-destructive testing, inspection and structural monitoring", "Adobe and vernacular constructions", "Conservation of the 20th century architectural heritage", "Structural assessment and intervention of archaeological sites", "Theory and practice of conservation", "Repair and strengthening techniques", "Analytical and numerical approaches", "In-situ and laboratory experimental results", "Seismic behavior and retrofitting", "Rehabilitation, re-use and valorization of cultural heritage buildings", and "Case studies".

The event was organized by the Catholic University Leuven (KUL). The conference, under the chairmanship of Professors Koen Van Balen (chair) and Els Verstryngne, Ine Wouters, Guido De Roeck and Dionys Van Gemert (as co-chairs) was a great success both in terms of organization and scientific quality.

This special issue includes a set of selected articles presented in the conference and significantly extended and revised by their authors. We hope that the readers will enjoy this issue and invite all interested experts to attend the next SAHC conference that will take place in Cusco (Peru) during September 11–13, 2018.

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