Reinforcement and Repair Materials for Masonry Structures

Message from the Guest Editor

Over the last decades, the scientific research on the repair and preservation of the building stock, as well as in all other fields of Civil Engineering, has developed to a great extent and has significantly contributed to the progress of modern society. Masonry buildings, both historic or recently built, are currently subject to the adverse effects of climate change. Over the past decades, natural hazards of unusual magnitude, compared to those listed in the historic record, have struck several parts of the planet. Seismic actions, catastrophic and unexpected flooding, heavy rainfalls, landslides, rockfalls have caused in many cases irreparable damage and loss of life. The use of both “traditional” and new materials could contribute to repair and reinforce masonry structures with the aims of preserving, restoring, and improving their behavior under extreme conditions. Critical aspects to consider will be the green and sustainable properties of materials, their compatibility with pre-existing masonry material, their long-term behaviour, the effectiveness and the reversibility of the investigated strengthening methods.
Editor-in-Chief

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Message from the Editor-in-Chief

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