



Innovative Strategies for the Sustainable Strengthening of Existing Buildings

Guest Editors:

Prof. Dr. Claudia Casapulla

Department of Structures for
Engineering and Architecture,
University of Napoli Federico II,
Via Forno Vecchio, 36, 80134
Napoli, Italy

Dr. Linda Giresini

Department of Energy, Systems,
Territory and Constructions
Engineering, University of Pisa,
56126 Pisa, Italy

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Message from the Guest Editors

In the last few decades, significant developments have been made to improve the structural performance of existing buildings against different hazards (earthquakes, volcanoes, landslides, floods, wind, blasts) using traditional and innovative strengthening/retrofitting systems. The sustainability of such systems needs to be tackled in many challenging aspects, such as material compatibility, reversibility and durability of the intervention, reduction of cost, time, and greenhouse gas (GHG) emissions, and energy optimization.

This Special Issue focuses on advanced strengthening/retrofitting techniques, even integrated with solutions for energy saving or for the reduction of environmental impacts, and on recent developments in experimental and numerical investigation methods for strengthened/retrofitted constructions, with reference to masonry, reinforced concrete, and timber structures. Original research articles and literature reviews are welcome. Research areas may include (but are not limited to) the following issues:





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Prof. Dr. Marc A. Rosen

Faculty of Engineering and
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Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

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