

Special Issue

Steel and Aluminium Structures: New Advances in Structural Design and Retrofitting Strategies

Message from the Guest Editors

This Special Issue aims to present new, advanced research regarding steel and aluminum structures. In particular, our goal is to collect papers concerning experiments and numerical modeling of metal members, and new methodologies in structural design and retrofitting strategies when the structure is subjected to severe earthquakes. The fatigue and fracture behavior of steel materials and aluminium alloys, advanced studies on instability phenomena, new computational technologies performing detailed nonlinear static and/or dynamic analyses of realistic structural systems, and the use of metal members in the retrofitting strategies are included within the scope of this Special Issue. The are inviting high-quality original research articles focused both on the state-of-the-art and the newly developd techniques for seismic protection. We are promoting the Special Issue through our institutional web page, by informing the entire Italian community of structural engineering professors and all the other foreign colleagues that are involved in several research projects with the Editors.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2022)



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About the Journal

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editors-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.8 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2024).