

Special Issue

Steel Structures with Double-Symmetric Hollow-Section Columns: Design, Testing and Finite Element Analyses

Message from the Guest Editors

This Special Issue focuses on the advanced applications and innovations related to hollow-section column steel structures. Double-symmetric steel columns have emerged as a key structural element in modern construction, offering unique advantages such as higher load-bearing capacity, improved stability, symmetric tridimensional behaviour, and enhanced architectural aesthetics, although complex beam-to-column connections are a challenge. The papers featured in this Special Issue focus on a diverse range of aspects, including structural design, material advancements, seismic resilience, testing, sustainability considerations, and computational modelling techniques specific to hollow-section columns. The research presented herein aims to contribute to the evolving field of steel structural engineering by promoting innovative designs, novel applications, and sustainable practices in hollow-section column steel structures. This collection of research papers endeavours to inspire further exploration and foster collaborations, ultimately advancing the understanding and implementation of hollow-section columns to meet the evolving demands of contemporary construction.

Guest Editors

Dr. Antonella Bianca Francavilla

Department of Civil Engineering, University of Salerno, 84084 Fisciano, Italy

Dr. Sabatino Di Benedetto

Department of Civil Engineering, University of Salerno, 84084 Fisciano, Italy

Deadline for manuscript submissions

closed (30 September 2024)



Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



mdpi.com/si/186027

Symmetry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

[mdpi.com/journal/
symmetry](https://mdpi.com/journal/symmetry)





Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



[mdpi.com/journal/
symmetry](https://mdpi.com/journal/symmetry)



About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

Prof. Dr. Sergei Odintsov

1. ICREA, 08010 Barcelona, Spain

2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)