Special Issue

Advances in Failure of Structures – Material Characteristics and Loading Conditions

Message from the Guest Editors

This Special Issue addresses recent advances on the instability and failure features associated with a broad range of structural components. The focus areas are (but are not limited to) steel, concrete, timber, masonry, as well as composite structures subjected to a wide variety of loading circumstances (including static loading, earthquake-generated excitation, fire, wind, etc.) within different numerical, experimental, and hybrid research frameworks. The scope of this Special Issue encompasses the common issues around failure and instability analyses, nonlinear response, thin-walled structures, new materials and compositions in construction, timber and masonry composites, fibre-reinforced structures, pressurised and industrial structures, optimisation, sustainability, and environmental consideration in structures. Keywords

- recent advances in structural systems
- instability and failure
- steel, concrete, and composite structures
- stability and buckling
- numerical and experimental methodologies

Guest Editors

Dr. Tohid Ghanbari-Ghazijahani
School of Engineering, Macquarie University, Macquarie Park, NSW 2113, Australia

Dr. Farhad Dashti
Department of Civil and Natural Resources Engineering, University of Canterbury, Christchurch 8140, New Zealand

Deadline for manuscript submissions

closed (30 December 2023)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/96365

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)