

Special Issue

Damage Detection of Steel Structures with Advanced Computational Techniques

Message from the Guest Editors

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Experimental, numerical, and analytical studies on damage detection in steel structures
- Novel sensors, instrumentations, and robotic systems for damage detection in steel structures
- Advanced parameter/dynamical load identification and signal processing techniques for damage detection
- Long-term behavior under severe environmental exposures and sustained loading (e.g., corrosion fatigue)
- Retrofitting solutions using novel approaches to damage structures, for example, FRP/SMA (e.g., bond behavior, pre-stressing methods)
- Multi-axis damage and fatigue studies of structural joints
- Ultimate load capacity and reliability of mechanical structures
- Multi-scale/multi-resolution studies of failure criteria and damage evolution
- Simulation and prediction methodology for damage-induced steel structural performance deterioration

We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Dalei Wang

Prof. Dr. Tao Chen

Prof. Dr. Qing Zhang

Dr. Yue Pan

Deadline for manuscript submissions

closed (31 March 2023)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/125772

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

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





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



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



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen

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

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)