



## Enhancing Sustainable Construction Design and Project Execution Using Information Technology

Guest Editors:

**Dr. Payam**

**Rahnamayiezekavat**

School of Engineering, Design and Built Environment, Western Sydney University, Penrith, NSW 2751, Australia

**Dr. Qinjun (Lavender) Liu**

School of Engineering, Design and Built Environment, Western Sydney University, Sydney, Australia

**Dr. Songbo Hu**

School of Engineering, Design and Built Environment, Western Sydney University, Sydney, Australia

Deadline for manuscript submissions:

**2 June 2025**

### Message from the Guest Editors

This Special Issue of *Sustainability* explores the transformative potential of Information Technology (IT) in addressing this challenge, aligning with the United Nations's 2030 Agenda for Sustainable Development.

This Special Issue aims to contribute to the knowledge on sustainable design and construction practices. By focusing on IT's role within construction design and project execution, we aim to complete the following tasks:

- Highlight the emerging trend of IT-driven sustainable design and construction;
- Bridge the gap between academia and industry by showcasing practical applications and research advancements;
- Assess the benefits of integrating Industry 4.0 technologies, including cyber-physical systems, machine learning (ML), Internet of Things (IoTs), big data analytics, and robotics and autonomous systems, on the sustainability of construction projects;
- Identify recent advancements and achievements in IT-enabled sustainable construction methods.

We welcome original research articles and reviews that explore various aspects of IT-driven sustainable design and construction.





an Open Access Journal by MDPI

## 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

## 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.

## 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, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

## Contact Us

---

*Sustainability* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
X@Sus\_MDPI