# **Special Issue**

# When Digital Meets Traditional: How Does the Built Environment Head toward Sustainability?

### Message from the Guest Editors

This Special Issue aims to publish original research. both theoretical and empirical, contributing to the uptake of digital technologies to provoke and facilitate the digitalisation of the built environment from all perspectives. We welcome the contributions setting out feasible decarbonisation paths and sustainability transitions for this carbon-intensive sector, which is responsible for approximately 40% of the global carbon emission. We invite researchers to share their contributions regarding the adoption of emerging and disruptive digital technologies to enhance resilience to multiple hazards and climate change. Among the technologies with significant potential that lead toward a smarter and more sustainable built environment, we mention the Internet of Things. Building Information Modelling (BIM), semantic web technology, knowledge graph, artificial intelligence, digital twin, and cyberphysical system. We look forward to receiving your contributions elaborating on the adaption of these technologies to tackle domain-specific challenges.

### **Guest Editors**

Dr. Xiang Xie

School of Engineering, Newcastle University, Newcastle upon Tyne, UK

Dr. Long Chen

School of Architecture, Building and Civil Engineering, Loughborough University, Epinal Way, Loughborough LE11 3TU, UK

### Deadline for manuscript submissions

closed (31 December 2023)



## Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/138620

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

mdpi.com/journal/ sustainability





### Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



## **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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University, Columbus, OH 43210, USA

#### **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, CAPlus / SciFinder, and other databases.

#### Journal Rank:

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

