buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.1

CITESCORE 4.4

Blockchain in Construction and the Built Environment

Guest Editors:

Prof. Dr. David Greenwood
Department of Architecture & Built Environment, Faculty of Engineering and Environment, Northumbria University, Newcastle-upon-Tyne NE1 8ST, UK

Dr. Barry Gledson
Architecture and Built Environment, University of Northumbria, Newcastle NE1 8ST, UK

Deadline for manuscript submissions:
closed (31 July 2021)

Message from the Guest Editors

Dear Colleagues,

Blockchain, more formally known as Distributed Ledger Technology, is already changing the way transactions take place in sectors that range from finance to music and entertainment. There is a real and recognised potential for Blockchain to support and complement the increasing digital transformation of the construction industry and wider built environment. However, its adoption is not straightforward and is likely to disrupt many recognised ways of working and traditional business models. The aim of this Special Issue is to explore, through theoretical and empirically-based contributions, Blockchain's potential for construction and the built environment; the barriers to its adoption; and its likely impact.

Prof. Dr. David Greenwood

Dr. Barry Gledson

Guest Editors

buildings

IMPACT FACTOR 3.1

CITESCORE 4.4

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. David Arditi
Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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, Ei Compendex, Inspec, and other databases.
Journal Rank: JCR - Q2 (Construction and Building Technology) / CiteScore - Q1 (Architecture)

Contact Us

Buildings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/buildings
buildings@mdpi.com
𝕏@Buildings_MDPI