

Special Issue

Adaptive Components for Building Performance Control

Message from the Guest Editors

It is difficult to give a fixed structure to the functions carried out inside buildings because of the fast changing needs of the users. An way to achieve this may be to enable the building to change its shape.

The wide variety of interpretations of this theme is reflected in the diversification of definitions that are closely linked with individual studies on the subject and are typically varied depending on the degree of automation integrated into the component. Active systems are based on extrinsic control via the use of sensors and actuators need external energy resources. Passive systems, based on an intrinsic control, are distinguished by their ability to self-adapt in response to certain inputs. Both systems continue to be studied for different fields of use.

This Special Issue focuses on the application of the abovementioned types of components and possibly others not yet applied in current building technology and aims to collect original research or review papers. The studies should also underline the relationship between the suggested solutions and the local context with the support of case studies, and innovative smart materials for building performance control.

Guest Editors

Dr. Gianluca Rodonò

Department of Civil Engineering and Architecture, University of Catania,
95100 Catania, Italy

Dr. Vincenzo Sapienza

Department of Civil Engineering and Architecture, University of Catania,
95100 Catania, Italy

Deadline for manuscript submissions

closed (1 October 2021)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/52100

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. 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)