

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.

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Deadline for manuscript submissions

closed (1 October 2021)



Sustainability

an Open Access Journal
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Impact Factor 3.3
CiteScore 7.7



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