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Sustainable Buildings Life Cycle through Digitalization

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Message from the Guest Editors

In line with the European Green Deal, which aims to bring a more efficient, innovative, and human-centered perspective to the European construction sector, the sustainable built environment surpasses the sole aim of improving the energy and resource efficiency of buildings. On the one hand, it includes comfort and a human dimension to ensure the application of the life-cycle assessment and a circular approach, but on the other hand, digital technologies such as BIM and/or Digital Twins offer different opportunities for a more efficient life-cycle design of buildings and thus constitute a tool for the sustainability of the building sector.

Topics targeting sustainable building life cycles through digitalization seek to achieve the following targets:

- Building stocks that are more energy-efficient and are supported by an accurate understanding of materials, building performance, and related evolutions and emissions.
- Building design, construction, operation, and refurbishment procedures that effectively combine energy efficiency, renewable energy sources, as well as digital and smart technologies to support the transformation of the built environment towards climate neutrality.



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Special Issue



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Message from the Editor-in-Chief

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