

## Virtual and Augmented Reality Applied in Architecture, Engineering and Construction

Guest Editor:

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submissions:

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### Message from the Guest Editor

This Special Issue of the journal *Buildings* concerns virtual and augmented reality for the design, manufacture, and maintenance of buildings. Virtual reality and augmented reality have a technological maturity allowing them to bring added value in many fields of activity. The building domain is a producer of numerous digital data at the concept level (with the BIM data—Building Information Modeling), at the construction level (data of the building as built), at the maintenance level and at the user level. These digital data, coupled with virtual and augmented reality technologies, allow a better collaborative work between designers and future users for the design of the building, a more intuitive interaction between users and the building through smart data visualisation and an assistance to maintenance operations. [...]

For further reading, please follow the link to the Special Issue Website at:

[https://www.mdpi.com/journal/buildings/special\\_issues/Virtual\\_Augmented\\_Reality\\_Buildings](https://www.mdpi.com/journal/buildings/special_issues/Virtual_Augmented_Reality_Buildings)



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## 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.

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