

Special Issue

Climate-Responsive Architecture and Urban Form: Adapting Buildings and Infrastructures to Environmental Challenges

Message from the Guest Editors

The impact of more frequent extreme events on the built environment has become more evident in recent years. The appropriate application of climate-responsive design strategies for buildings and urban planning, including built and non-built infrastructures, is crucial for dealing with these events more resiliently. Buildings and infrastructure should be designed to consider climate adaptation and resilience to extreme events, and innovative solutions should be provided that promote sustainability and safeguard occupants. Predictive methods and new technical solutions are vital to guarantee the operation of buildings with essential services. Climate adaptation is crucial in policy decisions as supporting climate-resilient buildings offers opportunities to mitigate risks, safeguard assets, and ensure returns over the long term. This approach helps reduce economic losses, optimize costs throughout the building and infrastructure life cycle, and balance initial economic investments with co-benefits at the environmental, economic, and social levels, both private and macroeconomic.

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