

Built Environments and Environmental Buildings

Guest Editors:

Message from the Guest Editors

Prof. Dr. Pedro Delgado**Prof. Dr. Joana Maia de
Oliveira Almeida****Dr. Romeu da Silva Vicente**Deadline for manuscript
submissions:**20 November 2024**

- Diagnosis and characterisation of damage of building structures and infrastructures; In situ field test methods, laboratory tests and analysis, numerical simulation and modelling;
- Testing and/or development of sustainable treatments, products or solutions; Preventive conservation and rehabilitation of constructions;
- Environmental monitoring, moisture, condensation, etc.;
- Impact of climate change and environmental conditions; consequences from refurbishments and retrofitting measures: energy efficiency, ventilation, airtightness and moisture in buildings;
- Efficient use of resources, circular economy principles and life cycle assessment and cost-benefit analysis;
- Optimize the quality of life of the inhabitants of the built environment; Systematization and optimization of construction processes; minimization of construction costs in the short and long term;
- Digitalisation and documentation, data bases, past interventions, adaptation to new legislation for built environment;
- New methodologies, digital and innovative technologies, building information modelling (BIM), geo-referenced information systems (GIS).



Editor-in-Chief

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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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