

## Special Issue

# Optimizing Colour Design and Daylight Performance in Buildings

### Message from the Guest Editors

The smart integration of daylighting and colour design in buildings is a key requirement for sustainable, healthy living environments, transcending aesthetics to influence performance, energy efficiency, and human well-being. Natural light enables energy-conscious design: effective daylight harvesting and distribution drastically cuts reliance on artificial lighting—a major building energy consumer—directly supporting global carbon neutrality and sustainability goals. Moreover, light quality and its interaction with interior surfaces and colours are closely tied to occupant wellbeing and productivity. Adequate, well-regulated natural light is vital to regulating circadian rhythms, boosting mood, and elevating visual comfort. Colour selections serve as key modifiers, affecting light distribution and shaping both physiological and psychological spatial perceptions. Optimizing these elements together is more than an architectural decision—it is a performance-driven design strategy essential to crafting healthy, highly efficient, human-centric built environments.

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### Guest Editors

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### Deadline for manuscript submissions

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## Buildings

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. David Arditi

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