Special Issue

Optimal Design of Lighting/Daylighting in Buildings

Message from the Guest Editors

The purpose of this Special Issue (SI) is to attract original articles that focus on Optimal Design of Lighting and Daylighting in Buildings. The topics include, but are not limited to, analytical, experimental, and simulation techniques applicable to the design of lighting/daylighting. This SI aims to highlight the optimal design of lighting/daylighting, and therefore, optimization techniques are highly sought after. Techniques based on Machine Learning and Artificial Intelligence applicable to the optimal design of lighting/daylighting are welcome. This SI is also interested in research that introduces and implements design tools for lighting/daylighting. Research articles covering topics such as Visual Comfort, Human Health and Well-being, Non-Visual Impacts of Light, as well as Ethical, Societal and Environmental issues related to the optimal design of lighting/daylighting will also be considered. The impacts of optimal design for lighting/daylighting on energy consumption and energy management are also of interests.
For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/buildings/special_issues/ N7HA7Q7T3J

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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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