Special Issue

Smart Lighting and Visual Safety

Message from the Guest Editors

Smart lighting describes an interdisciplinary field of modern closed-loop luminaires applied for exterior, interior, personal or public lighting and also special cases such as interactive design. Connected research fields started from real mechanical, electronical or optical design, sensing and data collection/evaluation for lamp control strategies until theoretical simulations or modelling with self-learning control algorithms out of the field of machine learning. Strategies from energy saving and light efficiency boosters are included as well. Visual safety describes the potential risk by uncontrolled lamps for people's habit perceived by our visual- and non-visual system. For reference, the first results can be roughly named physiological or psychological glare, or distractive lighting and projection for modern transportation and mobility. The goal of this research is to present within this Special Issue knowledge from both fields in theories and applications for humans to improve smart lighting and visual safety, especially in the field of transportation and future mobility, also suitable for other applications involved with the scientific theory of vision and lighting.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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