



Smart Lighting and Visual Safety

Guest Editors:

Prof. Dr. Yandan Lin

Department of Illuminating
Engineering & Light Sources,
School of Information Science
and Technology, Fudan
University, Shanghai 200438,
China

Dr. Minchen Wei

Department of Building
Environment and Energy
Engineering, The Hong Kong
Polytechnic University, Kowloon,
Hong Kong

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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, electrical 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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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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