

Special Issue

Advances in Virtual Reality and Vision for Driving Safety

Message from the Guest Editor

In recent years, the rapid development of virtual reality (VR), computer vision, and intelligent sensing technologies has opened new opportunities for improving driving safety. Road accidents remain a major global challenge, and innovative solutions are urgently needed to enhance driver awareness, prevent collisions, and support safer mobility. Vision is the most critical sensory function in driving, with impairments such as reduced acuity, visual field loss, and delayed visual processing significantly increasing accident risk. Advances in vision science, combined with VR-based simulation and computer vision systems, enable more accurate assessment of visual performance, early detection of risk factors, and the design of targeted interventions. We are pleased to invite you to contribute to this Special Issue. It aims to bring together cutting-edge research and practical applications that explore how immersive technologies, vision-based monitoring, and visual function assessment can improve driver performance, assess risks, and ultimately reduce traffic accidents.

Guest Editor

Dr. Carolina Ortiz

Clinical and Laboratory Applications of Research in Optometry,
Department of Optics, University of Granada, 18071 Granada, Spain

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

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Message from the Editor-in-Chief

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.

Editor-in-Chief

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

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