

Special Issue

Human Factors in Automated Driving and Intelligent Transportation System

Message from the Guest Editors

Human factors are important to address in the field of intelligent transportation systems (ITSs), especially for automated driving (AD). As technology advances, the interaction between humans and automated systems becomes increasingly complex, necessitating a deeper understanding of how drivers interact with, adapt to, and perceive these technologies. This Special Issue seeks to explore these dynamics, focusing on aspects such as driver behavior, trust and acceptance of automated systems, cognitive load, ergonomics, and the impact of AD on traffic safety and efficiency. By delving into these topics, we aim to bridge the gap between technological capabilities and human needs, ensuring that automated driving systems are both effective and user-friendly. This Special Issue encourages authors from academia and industry to submit new research results about technological innovations and novel ideas in the context of human factors in automated driving and intelligent transportation systems.

Guest Editors

Dr. Philipp Sieberg

Department Mechanical Engineering, University of Duisburg-Essen,
Forsthausweg 2, 47057 Duisburg, Germany

Dr. Magnus Liebherr

Department Mechanical Engineering, University of Duisburg-Essen,
Forsthausweg 2, 47057 Duisburg, Germany

Deadline for manuscript submissions

31 March 2025



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/209233

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

[mdpi.com/journal/
appls](https://mdpi.com/journal/appls)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)