



## **Human-Centered Design and Development of Advanced Driver Assistance Systems**

Guest Editors:

**Dr. Bo Yang**

Institute of Industrial Science,  
The University of Tokyo, Tokyo  
153-8505, Japan

**Dr. Zheng Wang**

Institute of Industrial Science,  
The University of Tokyo, Tokyo  
153-8505, Japan

**Dr. Shuo Cheng**

Institute of Industrial Science,  
The University of Tokyo, Tokyo  
153-8505, Japan

Deadline for manuscript  
submissions:

**31 May 2024**

### **Message from the Guest Editors**

Normally, sensors and cameras are used in ADASs to detect obstacles or human errors. Recently, the development of emerging technologies (including vehicular communications) makes it easier for vehicles to collect surrounding traffic information, and can offer new possibilities to improve the performance of ADASs.

Therefore, it is essential to provide an insight into the trends and challenges of ADASs. This Special Issue aims to cover all the topics related to ADASs, and welcomes both research and review papers. This Special Issue will focus on (but is not be limited to) the following topics:

- The development and validation of ADASs
- Driver's trust in ADASs
- Human-machine interfaces and interactions
- Driver monitoring systems
- Sensor and camera technologies
- Vehicular communications
- Emerging technologies that can be applied in ADASs





an Open Access Journal by MDPI

## **Editor-in-Chief**

**Prof. Dr. Antonio J. Marques  
Cardoso**

CISE—Electromechatronic  
Systems Research Centre,  
University of Beira Interior,  
Calçada Fonte do Lameiro, P -  
6201-001 Covilhã, Portugal

## **Message from the Editor-in-Chief**

*Machines* is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

## **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*, and other databases.

**Journal Rank:** JCR - Q2 (*Engineering, Mechanical*)

## **Contact Us**

---

*Machines* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/machines](http://mdpi.com/journal/machines)  
[machines@mdpi.com](mailto:machines@mdpi.com)  
X@Machines\_MDPI