

## Special Issue

# Autonomous Vehicles and Robotics

### Message from the Guest Editors

The automobile industry is being transformed by three-dimensional disruptions, moving from the internal combustion engine to the electric engine, from the human driver to autonomous driving and from the ownership business model to mobility as a service. However, due to the application of immature and unreliable software, fatal accidents have weakened trust in these systems. In this regard, we must improve their safety, security and reliability. The IEEE International Symposium on Autonomous Vehicle Software (AVS2023) aims to bring together researchers and scientists from artificial intelligence and robots and researchers from various application areas to discuss problems and solutions in the area, to identify new issues, and to shape future directions for research. This Special Issue will introduce works on autonomous vehicle software, robot perception and interaction, covering areas such as autonomous vehicle software vulnerability assessment, risk analysis, attack and threat models, visual understanding, machine vision, intelligent interaction and other related topics. The AVS2023 conference will be held in Tokyo, Japan, from August 10th to 11th 2023.

### Guest Editors

Prof. Dr. Nan Ma

Prof. Dr. Taohong Zhang

Prof. Dr. Yang Yang

### Deadline for manuscript submissions

closed (31 May 2025)



## Applied Sciences

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

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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

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