

# Special Issue

## Advances in Autonomous Vehicles Dynamics and Control

### Message from the Guest Editors

This Special Issue seeks to bring together the latest research and developments in the field of autonomous vehicle dynamics and control. We invite submissions that address a broad range of topics related to this field, including advanced control system designs, dynamics modeling and simulation, and machine learning approaches. Specifically, topics of interest include, but are not limited to, the following:

- Dynamics modeling and real-world implementation of autonomous vehicle control systems;
- Energy-efficient control and optimization for autonomous vehicles;
- Advanced control system designs for precise control and maneuvering of autonomous vehicles in complex driving scenarios;
- Data-driven approaches to vehicle dynamics modeling and simulation;
- Cooperative and coordinated control of multiple autonomous vehicles;
- Applications of autonomous vehicles in transportation, warehouses, construction, manufacturing and space exploration, etc.

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### Guest Editors

Dr. Zhongchao Liang

Dr. Jing Zhao

Dr. Zhongguo Li

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### Deadline for manuscript submissions

closed (28 February 2025)



## Machines

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso  
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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).