



Dynamics and Control of Autonomous Vehicles

Guest Editors:

Dr. Hormoz Marzbani

Royal Melbourne Institute of
Technology, School of
Engineering, Bundoora, VIC 3083,
Australia

Prof. Dr. Reza Jazar

Royal Melbourne Institute of
Technology, School of
Engineering, Bundoora, VIC 3083,
Australia

Deadline for manuscript
submissions:

closed (31 March 2023)

Message from the Guest Editors

The rather complex problem of autonomous vehicles control has captured the attention of multi-disciplinary researchers for many years now. Although computer science initially showed promise in solving this problem, we now know that the nonlinearities and complexities involved in critical scenarios of the problem requires dynamics scientists and experts to address the remaining issues, especially considering the safety, comfort and convenience of passengers, as well as the variable environmental factors and highly stochastic fellow agents, such as other vehicles and pedestrians. This Special Issue aims to bring researchers together to present recent advances and technologies in the field of dynamics and control, passenger-centered control, and safety critical control of autonomous vehicles while addressing uncertainty in autonomous vehicle control.





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) / CiteScore - Q2 (Control and Optimization)

Contact Us

Machines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/machines
machines@mdpi.com
[X@Machines_MDPI](https://twitter.com/Machines_MDPI)