

Special Issue

Optimal Control of Autonomous Vehicles

Message from the Guest Editor

The last few years witnessed tremendous progress in all areas of autonomous vehicle technology. However, even with unprecedented growth in computing power and algorithm, improvements are still sought to advance the field of control with emphasis in optimizing various aspects of vehicle performance, including drivability, safety critical function, energy efficiency, and environmental and societal impacts. This Special Issue aims to bring together researchers in industry and academics to present recent technological advancements or to provide comprehensive reviews or forward-looking visions and insights in the field of optimal control. Proposed topics include, but are not limited to

- Autonomous vehicle optimal control;
- Vehicle dynamics modeling and control;
- Chassis control;
- Vehicle safety control;
- Autonomous vehicle path planning;
- Energy-efficient connected and automated vehicles.

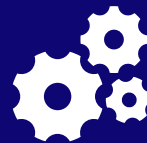
Guest Editor

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Deadline for manuscript submissions

closed (20 May 2024)



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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.

Editor-in-Chief

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JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1 (Control and Optimization)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).