

Special Issue

Dynamics and Path Planning for Autonomous Vehicles

Message from the Guest Editor

In recent years, autonomous vehicles have played an increasingly important role in national economies and human social life. In autonomous navigation technology, motion planning plays a crucial role in improving safety and comfort. To improve the route stability of autonomous vehicles is still the focus of research. This Special Issue of *Machines* focuses on the latest scientific and technical research around these topics in both the academic and industrial sectors. These topics include but are not limited to the following:

- Autonomous vehicles;
- Path planning techniques for autonomous vehicles;
- Evolutionary algorithms for motion planning;
- Motion planning via imitation learning;
- Multi-agent reinforcement learning for autonomous vehicles;
- Human-machine collaborative control of autonomous vehicles;
- Vehicle motion control in complex traffic environments.

We are looking forward to receiving your submissions.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2025)



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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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