

## Special Issue

# Path Tracking for Automated Driving

### Message from the Guest Editors

Ground vehicle path-tracking control constitutes the cornerstone of fully autonomous driving. Advanced modeling, estimation, and control techniques have been continuously invented and implemented to achieve high-performance path tracking for automated driving, especially under adversary situations. In addition to the safety requirements, energy-saving should also be accounted for during path-tracking controller design to achieve sustainable transportation, especially when autonomous vehicles are deployed on a large scale. Finally, objective and systematic evaluation frameworks to compare the strengths and weaknesses of various path-tracking algorithms are still severely lacking.

This Special Issue is devoted to theoretical breakthroughs, practical solutions, and comprehensive evaluations of novel modeling, estimation, and control algorithms for ground vehicle path tracking. Topics include, but are not limited to, the following: automated driving systems, path tracking for collision avoidance, energy-optimal trajectory following, and path tracking controller evaluation.

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### Guest Editors

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Dr. Wenshuo Wang

Dr. Anh-Tu Nguyen

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### Deadline for manuscript submissions

closed (25 November 2024)



## Vehicles

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## About the Journal

### Message from the Editor-in-Chief

In response to economic, political, and environmental pressures, the automotive vehicle community is expanding its research, development, and production of more energysaving, environmentally friendly, and safer ground vehicles through vehicle electrification, powertrain hybridization, high-efficiency drivetrain, autonomous or automated driving, vehicle connectivity, and infrastructure.

*Vehicles* is a new open access and peer-reviewed international journal that will facilitate rapid publication of scholarly articles on studies related to ground vehicles. Its mission is to publish cutting edge articles, conference proceedings, and to organize Special Issues which highlight outstanding research on specific topics regarding all landbased vehicles with regards to the design, modeling and simulation, manufacture, testing, and operation and modification of those vehicles and their engineering systems.

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### Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.4 days after submission; acceptance to publication is undertaken in 3.4 days (median values for papers published in this journal in the second half of 2025).