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Modeling, Estimation, Control, and Decision for Intelligent Vehicles

Guest Editors:

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Dr. Jinhao Liang

Dr. Xingyu Zhou

Dr. Zhenwu Fang

Deadline for manuscript submissions:
closed (31 October 2025)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to provide up-to-date research concepts, theoretical findings, and practical solutions for modeling, estimation, control, and decisions for intelligent vehicles, which could enhance the automation and intelligence levels of vehicles. Topics of interest include but are not limited to the following:

- Personalized Decision and Control for Autonomous Driving
- End-To-End (E2E) Autonomous Driving
- Software-Defined Vehicle for Intelligent Vehicles
- Vehicle-To-Everything (V2X) and Cellular V2X (C-V2X) Communications
- Cooperative Vehicles
- Dynamics Modeling, Simulation Analyses, and Control System Design
- Advanced Driver Assistance Systems
- Application of AI and Machine Learning for Driver–Vehicle System
- Human Factors for Intelligent Vehicles
- X-by-Wire Control and Optimization Design of Intelligent Vehicles

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Special Issue

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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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