Special Issue

Artificial Intelligence for Advancing Connected and Autonomous Vehicles

Message from the Guest Editors

This Special Issue will act as a venue for reporting the latest advances regarding the state of the art in applying AI to CAVs across the remit, from fundamental enabling technologies to demonstrator applications. Submissions are encouraged in areas encompassing, but not limited to, the following:

- Advances in perception systems;
- Agent modelling;
- AI for advanced scene understanding;
- AI for communications systems in CAVs;
- AI for physical modelling in autonomous driving;
- AI for sensor fusion;
- AI systems integration;
- CAV control and optimal control using AI;
- CAVs in unstructured or hazardous environments;
- Hardware for AI-enabled CAVs;
- Implementations of ethical systems for CAVs;
- Localization and SLAM;
- Real-time and online AI;
- Real-world implementations and testing;
- Semi-autonomous and teleoperated CAVs;
- Simulation and AI;
- System verification and validation.

Guest Editors

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Deadline for manuscript submissions

31 October 2025

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/237547

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mdpi.com/journal/applsci

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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