



## Advances in Automated Driving Systems

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submissions:

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### Message from the Guest Editors

Dear Colleagues,

Electrification, vehicle automation, digitalization, and new mobility are the current major trends in automotive engineering. However several challenges hinder a wide-spread market introduction of automated vehicles, among those are: Reliable machine perception; accepted standards for vehicle type approval; human-machine interaction; functional safety; legal and ethical implications; interaction between automated and human-controlled vehicles; manipulation, misuse, and cyber-security; and system costs for hard- and software.

This Special Issue deals with recent advances related to those challenges; papers are welcomed which address:

- Machine perception for SAE L3+ systems;
- Trajectory planning and decision-making;
- X-by-Wire systems;
- V&V of SAE L3+ systems;
- Misuse, manipulation, and cybersecurity;
- Human-machine interaction and driver monitoring;
- Road infrastructure measures;
- Solutions for interactions of human- and machine-controlled vehicles in mixed traffic.





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## Message from the Editor-in-Chief

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