



Applications of Machine Learning in Automotive Engineering

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Deadline for manuscript
submissions:

closed (10 January 2026)

Message from the Guest Editor

Dear Colleagues,

With the advent of automated and connected vehicles and increasing market share of electric vehicles with improving performance, the automotive industry is currently undergoing a technological revolution. These technological transformations pose significant challenges and yet offer new opportunities in the design and control of the vehicles. In this regard, recent advancements in machine learning and AI have shown potential benefits in various aspects in automotive engineering, from the design and control to monitoring and maintenance of the vehicles.

In this Special Issue, we will discuss uses of machine learning for automotive engineering. Topics include but are not limited to:

- Machine learning and its application in automotive systems;
- Modeling, simulation, and control of automotive systems inspired by machine learning or AI;
- Advanced sensing and actuation via machine learning;
- Controls based on reinforcement learning;
- Connected and automated vehicles;
- Predictive maintenance;
- Advanced driver assistance systems;
- Human–machine interface.





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