



Design and Control of Autonomous Driving Systems

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Message from the Guest Editors

Dear Colleagues,

Autonomous vehicles represent a transformative advancement in automotive engineering, captivating the attention of both academic and industrial communities worldwide. We have seen extensive exploration in scenarios like lane changes, obstacle avoidance, car following, and merging. However, challenges persist in navigating complex conditions encompassing diverse road structures, varying traffic density, adverse weather, and interactions with vulnerable road users like pedestrians and cyclists. In addition, making intelligent decisions while sharing control with human drivers is not yet fully understood. Furthermore, aligning research with practical autonomous vehicle prototypes introduces new concerns such as functional safety, real-time computing, and cost-effective developments.

Hence, this Special Issue is dedicated to exploring advanced technologies for autonomous driving. We invite researchers to share their insights, from theoretical breakthroughs to practical solutions. Topics of interest include, but are not limited to, the following:

