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Recent Advances in Autonomous Vehicles

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Message from the Guest Editors

Dear Colleagues,

Autonomous vehicles have attracted a wide array of attention from engineers and researchers in recent years. Many works have been conducted; as a consequence, we can now use a driverless car named Waymo in several cities in America. In addition, autonomous vehicles used to deliver goods are also in development. However, we have still not achieved commercial certificated autonomous vehicles that can be used in an open environment.

The main objective of driving is to keep traffic safe and fluid. The term “safe traffic” includes infrastructure, goods, and traffic users being safe, including passengers in the subject vehicle. Safe autonomous driving is a task that combines many well-trained capacities, such as the capacity of observing, analyzing, predicting, anticipating, deciding, and acting at any time in order to adapt the dynamics of the vehicle to the traffic situation in terms of cancelling disturbances from the environment. Thus, the development of autonomous vehicles requires many advances in technology and efforts in the development of driving strategies and the management of fleets of autonomous vehicles.



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Message from the Editor-in-Chief

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