Special Issue

AI-Empowered Assisted and Autonomous Driving

Message from the Guest Editors

The fast-paced development of AI technologies provides significant opportunities for vehicle intelligence. AI-empowered assisted and autonomous driving technologies are the latest developments in transportation. These advancements can redefine the mobility, safety, and efficiency of the transportation system. Assisted driving, also known as semi-autonomous driving, leverages AI to enhance driver capabilities and vehicle performance. AI systems in these vehicles function as co-pilots, providing real-time assistance to the driver through Advanced Driver-Assistance Systems (ADASs). Autonomous driving takes the concept of AI in vehicles to the next level. Fully autonomous vehicles, also known as self-driving vehicles, operate without the need for human intervention.

At the brink of this technological revolution, AI-empowered assisted and autonomous driving will transform our transportation networks. The marriage of AI and automotive technology is not only about convenience but about creating a safer, more efficient, and more inclusive mobility ecosystem for the future.

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