

Research on Ensuring Safety Around Parking Lot Entrance and Exit Areas

- With a View to an Automated Car-driving Society-

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The study first examined the safety of vehicles and pedestrians or bicyclists at a parking lot entrance/exit in a large commercial building. The results showed that vehicles entering the parking lot by making a right turn were more dangerous because of the short time gap between them and pedestrians. Next, we examined the danger of being rear-ended by a following vehicle when a car entering a parking space with an automated vehicle obeying the law paused before the entrance/exit. The results showed that the risk of rear-end collision at entry increased with the speed and deceleration of the following vehicle.