

## 1. Impacts of collision warning system on car-following behavior based on naturalistic driving data

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**Abstract:** From 60 689 km of naturalistic driving data, 1 613 car-following events were identified. Two major parameters of car-following behavior were analyzed-time headway and reaction time. The results show that forward collision warning(FCW) did not have a significant effect on time headway; while FCW resulted in a 0.13 s decrease of reaction time in daytime driving, and a 0.09 s decrease when a following vehicle had higher speed than the lead vehicle. © 2016, Editorial Department of Journal of Tongji University. All right reserved.

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