

## WARNING SYSTEM FOR AVOIDING COLLISIONS AT INTERSECTIONS

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**Abstract:** Automobile rear-end collisions and collisions at intersections are the two most common traffic accident types in Japan. Although a number of warning systems for avoiding rear-end collisions have been proposed, little attention has been paid to warning systems aimed at preventing intersection collisions. This paper discusses an effective vehicle warning system that has the potential to prevent such collision and confirms its effectiveness by experiments using a driving simulator. The experimental results show that the proposed warning is effective and that optimal warning timings depend on the distance of the approaching vehicle to the intersection. *Copyright@2010 IFAC.*

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