

# SPLAT! How to Avoid Bugs while Driving on the Highway

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## Abstract

Abstract. A bug on your windshield does little damage, but a bug in the software that controls your engine, brakes or steering is catastrophic. Driver assistance technologies, like adaptive cruise control and automatic braking protocols, have the potential to increase the efficiency of crowded roads, but more compelling is their capacity for reducing the number of accidents and fatalities resulting from driver error. Yet, increased dependence on this next-generation technology is wise only when its reliability has been ensured and regulated.

Our methods can't protect your windshield from insects as you cruise down the highway, but with continued research we can remove the dangerous software bugs in safety-critical systems that testing and model checking overlook.

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