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I. Introduction

Intelligent driving has attracted considerable attention, and tremendous progress has been achieved in recent years [1], [2]. Autonomous vehicles have been primarily investigated to replace human drivers in order to enhance driving performance and avoid possible fatalities. However, human drivers will still play an important role in the driving task for a certain period before full driving automation is achieved. Hence the coexistence and cooperation of humans and vehicles represents an urgent and exciting new locus for the development in-vehicle technology [3], [4]. To enhance user safety and the efficiency of collaboration with intelligent vehicles, a reliable driver monitoring system (DMS) should be further pursued to parse the state of a human driver, which is a fundamental functionality to support advanced driver assistance systems and partially automated vehicles [5]–[8].

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