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**Abstract**

Road accident is a recurring events in Indonesia, there is a lot of factor involved. One of the important cause of fatal road accident is the bad driver's behavior. By decreasing bad behavior in driving hoped to be able to declining road accident factor. The first step is to analyze driver's driving behavior. But of course it is a hard thing to watch all of the drivers one by one, therefore the writers is using OBD-II (On Board Diagnostic) and IMU (Inertia Measurement Unit) record based analysis. Which later compute by Fuzzy Algorithm to be categorize into one of three class (dangerous to pedestrian, dangerous to contra flow, and safe driving).

**Keywords:** OBD-II (On Board Diagnostic), IMU (inertial measurement unit), Fuzzy Logic

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