

Abstract

Road accidents are unexpected and unintentional event that result in drivers, passengers or pedestrian. Road accidents can not be predicted. However accidents can be handled quickly and precisely. One of them is monitoring the bad behavior of four wheel motorists. But , it is very difficult to observe the drivers one by one. Therefore the writers use On Board Diagnostic II (OBD-II) that has been connected with inertial measurement unit (IMU) to record data on four wheel drive bad behavior on the road. After the data is recorded, the writer processes the data using a Complementary Filter and then it will be processed with a fuzzy algorithm. With the result that drivers behavior can be classified into three categories, dangerous to pedestrian, safe driving and dangerous to contra flow.

Keywords: Complementary Filter OBD-II, IMU, Fuzzy
