

# **Klasifikasi *Driver Behavior* dengan *Fuzzy Logic* berdasarkan Pengolahan Sudut Manuver Kendaraan Roda Empat**

Muhammad Rafqi Ramadhani<sup>1</sup>, Bayu Erfianto.S.Si.,Msc<sup>2</sup>

<sup>1</sup>rafqirmdhn@students.telkomuniversity.ac.id, <sup>2</sup>erfianto@telkomuniversity.ac.id

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## **Abstract**

Currently, technological developments have a major impact on the automotive world, especially the steering system for four-wheeled vehicles. This steering system has a function to regulate the direction of the vehicle's speed while running. However, to drive at a certain speed, sometimes it is quite difficult for the driver to be able to turn / maneuver sometimes can have fatal consequences such as accidents. To minimize or even avoid these incidents, the authors analyzed the maneuver movement data for the movement of four-wheeled vehicles using an application called Phyphox. This application uses the IMU for navigation, control, and maneuver detection which will later data the angles of the gyroscope and accelerometer as well as The speed of the GPS will be processed using a fuzzy logic method in order to improve the habits of the driver or driver's behavior. The author categorizes three driver habits, namely normal, aggressive (overtaking from the left), and overtake (overtaking from the right).

**Keywords:** Manuever, Inertial measurement unit,Fuzzy Logic, Driver Behaviour