Abstract

Overtaking is one of the factors that causes a big accident. Error of making decisions when

overtaking can cause the driver to have an accident. To avoid this, a lot of research have been done

to obtain the right way to reduce the risk of accidents when overtaking. One of the studies being

developed at this time is to develop autonomous cars by utilizing the overtaking assistant system. In

this study, a overtaking simulation will be built in an autonomous car like mobile robot. The robot

model used is the Steering Wheel. This simulation aims to enable two robots to communicate with

each other when one robot wants to overtake another robot, an ultrasonic sensor is used to measure

the distance between robots. The protocol used here is by using fuzzy logic method.

Keywords: Mobile Robot, Fuzzy Logic Method, Steering Wheel, Fuzzy Logic Controller