

Fuzzy Inference Based Modelling of Perception Reaction Time of Drivers

Authors : U. Chattaraj, K. Dhusiya, M. Raviteja

Abstract : Perception reaction time of drivers is an outcome of human thought process, which is vague and approximate in nature and also varies from driver to driver. So, in this study a fuzzy logic based model for prediction of the same has been presented, which seems suitable. The control factors, like, age, experience, intensity of driving of the driver, speed of the vehicle and distance of stimulus have been considered as premise variables in the model, in which the perception reaction time is the consequence variable. Results show that the model is able to explain the impacts of the control factors on perception reaction time properly.

Keywords : driver, fuzzy logic, perception reaction time, premise variable

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