

**Abstract**

Traffic accidents are a frequent occurrence in Indonesia, not only on toll roads but also on roads in crowded cities. Many accidents occur without knowing the real cause so that the vehicle has an accident. To overcome these problems, a forensic application is needed to analyze the data available on every vehicle that has experienced an accident. The making of this forensic application is to help find out the causes of vehicle accidents based on data from the parameters used. Forensic applications are made using fuzzy logic methods which analyze accidents quantitatively. The data that has been obtained is then processed to be analyzed using fuzzy logic methods. The results of this study are that the fuzzy method can be used to assist the application of vehicle accident forensic analysis. With the existence of fuzzy logic data received from each recording of the event the vehicle can be analyzed if an accident has occurred. This forensic analysis application is able to categorize accidents which are hit by, crashing, and when the car moves normally based on predetermined fuzzy rules.

**Keywords:** accident, forensic application, *fuzzy logic*, *fuzzy rule*