Abstract

Congestion is one of the problems on the road in addition to vehicle accidents, the dense number of vehicles, and the set time of traffic lights that are less by the circumstances that can hamper traffic. Traffic jams usually occur at an intersection. This paper takes the example of congestion that occurs at the intersection of Buah Batu, Bandung, West Java. Congestion at the intersection of Buah Batu does not only occur during the hours - hours or hours - rush hours such as morning and evening, during the day and at night congestion at the intersection of Buah Batu is also common. So this research was conducted to help overcome the congestion that occurred at the intersection of Buah Batu. This research uses the K - Nearest Neighbor (KNN) method with data from the Transportation Department (DISHUB) of Bandung, where the data that has been processed will be processed and split as much as 40% of test data and 60% of data trains. The accuracy result was obtained by 98% by taking the best k value using the KNN method with a value of k = 6.

Keywords: congestion, intersection, KNN