ABSTRACT

Traffic is motion or moving vehicles, humans and animals on the street from one place to another by using the tool motion. In a traffic there are three essential components such as human as the user, the vehicle and the road.The need of traffic information is considered to be very important for drivers and riders to recognize condition of traversed streets.

To get an information about traffic conditions then designed a system to determine the traffic density based on the number of vehicles that pass a certain point in each unit of time. In the final project, to get the information the author uses the method of Gaussian Mixture Models that ability is one of the background subtraction method, which focuses on the background and foreground segmentation. Process undertaken to determine the condition of traffic on a road segment is then preprocessed video capture, background and foreground segmentation, object counting and classification of road traffic conditions.

Keywords: traffic density, Gaussian mixture models,