



Real Time Toll Rate Determination Using Image Processing & Network Database

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Abstract: — The public or private road for which toll is decided for the way is called toll road also called turnpike or toll way. The charge of the toll depends upon various vehicle types, weight or number of axles because toll rate is proportional to the number of axles to have a vehicle. It is difficult to calculate the number of a vehicle by a toll booth operator so proposed an automatic system for detecting axles by Hough transform method for detecting a circle. According to this method the toll rate can be determined in a toll way. This system must be able to determine the fix amount for toll use Weather Sensor for calculating the average rain on the toll road. Also update the total number of vehicle and toll rate on network database daily, weekly and monthly.

Keywords— Canny Edge detection, Hough transforms, Image Processing, MATLAB, Network Database, Toll Collection, Weather Sensor.