

(54) Title of the invention : TRAFFIC MANAGEMENT SYSTEM FOR EMERGENCY VEHICLES

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(57) Abstract :  
 System and method are disclosed for managing traffic at intersections and enables the emergency vehicles to move without waiting in the traffic. Live feed of intersections at road is collected through image acquisition units 102 installed at intersections, and using a recurrent neural network (RNN) architecture such as long short-term memory (LSTM) the received live feed is analysed, that facilitates in determining traffic density on various lanes on the intersections, also detects location of the emergency vehicles in the traffic. Upon detection of the emergency vehicles associated traffic signal lights 108 can be switched from red light to green light, thus enables the emergency vehicle to move easily.

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