Intelligent Autonomous System Tocontrol Red Signal Jumping

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Abstract: Vehicle Technology has increased rapidly in recent years, particularly in *braking and sensing systems*. As technology evolves over time, we could see opportunities to reduce vulnerable road deaths, like deaths due to *red signal jumping*. *ASS* (active safety systems) is being researched and being developed to prevent accidents and also to target mitigation.Statistics shows that most of the road accidents are held due to jumping of traffic signals. This project is proposal of a system named Intelligent Autonomous System to Control Red Signal Jumping, which is triggered by traffic signal. This system is designed in such a way that it uses *image processing* technique and *autonomous emergency system* to achieve the need. Our system not only aims at reducing the number of casualties but also to prevent the vehicles from jumping the red signal against the driver's will.

Keywords : Braking and sensing systems, Active safety system, red signal jumping, image processing, autonomous emergency braking.

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