

# **Traffic Control System and Technologies**

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**Abstract:** *The rapid increase in vehicles and large time delays between traffic lights have been the major reason behind the cost of congestion. To overcome this problem, several techniques and methods have been introduced throughout the years which are trying to make traffic control systems dynamic. The conventional traffic control systems work on fixed timings allocated to each side of the junction which cannot be altered, In smart traffic control systems, these timings are controlled according to traffic density. The purpose of this study is to investigate whether these methods are feasible and if we can find any correlations between them. Methods discussed in this paper include the use of IR sensors, RFID tags, Thermal cameras and Reinforcement learning.*

**Keywords:** RFID, IR sensors, Embedded Systems, Reinforcement Learning, SURTRAC.

