A Survey of Intelligent Traffic Light Control Systems

Foundation of Computer Science (FCS), NY, USA

Volume 180

Number 21

Year of Publication: 2018

Authors:

Rahul Gala, Saurav Verma, Umang Kumar, Harish Ojha

10.5120/ijca2018916500

Abstract

Traffic congestion problem is a phenomenon on road networks that occurs as use increases, and is characterized by slower speeds, longer trip times, and increased vehicular queuing and contributes huge impact to the transportation system in the country. These TLC have limitations because it uses the pre-defined hardcode that does not have the flexibility of modification on real time basis. Due to the fixed time intervals of green, orange and red signals, the waiting time is more and the delay of respective light is not dependent on traffic. Thus, a car uses more fuel. Through this paper we intend to present an improvement in existing traffic control system at the intersection using different techniques i.e. Intelligent Traffic Light Controller using Embedded System, Traffic Control System Based on Image Processing Technique, Intelligent Traffic Light Using RFID Technique. Existing automatic traffic control system at the intersection with pre-set timing signals is proved to be inefficient in comparison with these

References


Index Terms

Computer Science  Control Systems

Keywords

Traffic Control, Smart Lights, RFID