

(54) Title of the invention : SMART TRAFFIC CONTROL SYSTEM FOR EFFICIENTLY CONTROLLING REAL-TIME TRAFFIC

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(57) Abstract :
 The proposed invention revolutionizes urban mobility by employing advanced technologies, including CCTV cameras and sensors, to create a safer and more efficient transportation network. The system dynamically monitors real-time traffic conditions, identifying vehicle types, emergency vehicles, and traffic violations. Utilizing a sophisticated control subsystem, it prioritizes high-density roads and ensures immediate green signal access for emergency vehicles. Additionally, an energy-saving feature deactivates traffic signals during low-density periods. This system not only minimizes traffic delays but also significantly reduces carbon emissions and contributes to a pollution-free environment. By automating traffic management without manual intervention, enforcing traffic rules, and prioritizing emergency vehicles, it represents a comprehensive solution for enhancing road safety, reducing accidents, and improving the overall experience for road users. Accompanied Drawing [Figure 1]

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