IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 7, May 2024

IOT Based Automatic Electric Vehicle Accident Prevention and Speed Control

Arvind S. Pande¹, Akshay A. Pathare², Rushikesh D. Thorat³ Akash C. Kandalkar⁴, Arjun B. Rode⁵, Vaibhav A. Mokal⁶

Department of Electrical Engineering^{1,2,3,4,5,6} Amrutvahini College of Engineering, Sangamner, A.Nagar, India

Abstract: The IoT-based Automatic Electric Vehicle Accident Prevention & Speed Control system introduces an innovative approach to enhancing road safety for electric vehicles (EVs). By leveraging a network of sensors and devices, the system continuously monitors real-time data on vehicle speed, road conditions, and proximity, enabling features such as collision avoidance, adaptive speed control, and emergency communication. With its proactive approach to risk mitigation, this system aims to revolutionize road safety, offering a comprehensive solution to prevent accidents and contribute to a safer and more efficient transportation ecosystem

Keywords: Electric vehicles, IoT technology, Road safety, Accident prevention, Sustainability

DOI: 10.48175/IJARSCT-18656

