

Electric Vehicle Management and Tracking using AI and IoT | IEEE Conference Publication | IEEE Xplore

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I. Introduction

Electric automobiles (EVs) help reorganize transportation by removing gasoline-powered autos. Daily EV use promotes a cleaner, healthier environment. There will be less air pollution, making it easier to live a carbon-free lifestyle. Because they emit no pollution, EVs will help global warming. The UK and most industrialized nations like the US use EVs to produce emission-free surroundings. Even in poor countries like India, EVs eliminate emissions. Artificial intelligence (AI) will program computers to think and act like humans, eliminating the need for humans. Industry relies on AI substantially. Industry 4.0 is driven by the Internet of Things. The Internet of Things [1] collects and processes data from sensors, networks, actuators, databases, and cutting-edge service delivery mechanisms. AI and IoT will highlight the gap between the virtual and physical worlds, as seen in autonomous vehicles (AVs). This article examines how AI and IoT could benefit self-driving cars [2]. VPPs have power generators, energy storage, and flexible consumers. When correctly implemented, VPP will make EV energy distribution more stable and equitable. This study starts an AI-based EV integration system. This system predicts electric vehicle battery life using federated learning and ANN. The methods in this article reduce EV power fluctuations. [3].

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